



REFRIGERANT AND OIL FILLING QUANTITIES
PASSENGER CARS & COMMERCIAL VEHICLES 2016-17

SYMBOLS



Vehicle type (passenger cars + transporters)



Vehicle type (commercial vehicles)



Year of construction



Refrigerant type



Refrigerant quantity (g)



OE compressor oil type



Behr Hella Service compressor oil type



Oil filling quantity overall system (ml)
(If "n.a." - see Notes)

SAFETY PRECAUTIONS AND NOTES

The information in the following tables has been compiled from vehicle manufacturers' specifications and is applicable only to original equipment air conditioning versions. All work on air-conditioning systems should only be carried out by specially trained staff taking the respective safety regulations and country-specific legislation into account.

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PAO Oil 68 AND PAO Oil 68 Plus UV

PRODUCT FEATURES

PAO Oil 68 is not hygroscopic, i.e. unlike other oils, it does not absorb moisture from the ambient air.

It can be used as an alternative to the various PAG oils that are offered for R134a*. In most cases therefore, you only need to stock one type of oil, instead of three different PAG oils.

PAO oil 68 has proved successful in practice for more than 10 years and is contributing towards improving efficiency of the air-conditioning system. It has no negative effects on the components in the air conditioning circuit. The same applies to its use in air-conditioning service stations (confirmed by the manufacturer on the basis of the sealed tube test in the ASHRAE 97 standard).

The oil is available with added contrast agent (PAO Oil 68 Plus UV) or without (PAO Oil 68).

Using PAO oil 68 and PAO oil 68 Plus UV in Behr Hella Service compressors, fully maintains the warranty entitlement.

(* apart from in electric compressors.)

APPLICATION/EFFECT

PAO Oil 68

The molecules of the PAO Oil 68 adhere to all surfaces in the system, force out other molecules and remain as a thin layer on the inner surface of the system components. Due to the fact that the molecules do not try to connect to each other, this oil layer is just one molecule "thick". Therefore, in contrast to many other oils, there is no risk of oil collecting in the evaporator and the associated loss of cooling output when PAO Oil 68 is used.

Due to the fact that PAO Oil 68 only slightly connects to the refrigerant, only a small part of the oil circulates through the system. The rest stays where the oil is actually needed – in the compressor.

An oil film in the components improves the seal or respectively reduces the friction between the moving parts in the compressor. This reduces the operating temperature and wear. This plays an important role in the operating safety and reduction of noise and also ensures that compressor run-times are shorter, thus reducing energy consumption.

PAO Oil 68 Plus UV

PAO Oil 68 Plus UV has the same advantageous properties as PAO Oil 68.

It is additionally enhanced with a concentrated, highly effective contrast agent that is used for UV leak detection.

The advantage of the low Vol%-concentration of the contrast agent is that all the properties of the oil are retained and there are no negative effects on system components or service units whatsoever.

To have enough effect for troubleshooting, 10 Vol% of the system oil quantity already suffices. For example, with a total system oil quantity of 180 ml, this corresponds to just 18 ml PAO Oil 68 Plus UV.

In addition, PAO Oil 68 Plus UV can also be used as the only oil to fill the whole system without there being any negative effects.

PAO OIL AND FURTHER OILS

Product	Application	Compressor type	Refrigerant	Viscosity Class	Contents	Part number
PAG Oil (can)	Vehicle air-conditioning systems*	All types**	R134a	PAG I (ISO 46)	240 ml	8FX 351 213-031
	Vehicle air-conditioning systems*	All types**	R134a	PAG II (ISO 100)	240 ml	8FX 351 213-051
	Vehicle air-conditioning systems*	All types**	R134a	PAG III (ISO 150)	240 ml	8FX 351 213-041
PAG Oil (spotgun cartridge)	Vehicle air-conditioning systems*	All types**	R134a	PAG I (ISO 46)	240 ml	8FX 351 213-061
	Vehicle air-conditioning systems*	All types**	R134a	PAG II (ISO 100)	240 ml	8FX 351 213-081
	Vehicle air-conditioning systems*	All types**	R134a	PAG III (ISO 150)	240 ml	8FX 351 213-071
PAG Oil YF	Vehicle air-conditioning systems*	All types**	R1234yf, R134a	PAG I (ISO 46)	240 ml	8FX 351 213-121
	Vehicle air-conditioning systems*	All types**	R1234yf, R134a	PAG II (ISO 100)	240 ml	8FX 351 213-131

Product	Application	Compressor type	Refrigerant	Viscosity Class	Contents	Part number
PAO Oil 68	Vehicle air-conditioning systems*	All types (except impeller type)	R1234yf, R134a, R413a, R22, R12	AA1 (ISO 68) AA1 (ISO 68) AA1 (ISO 68)	500 ml 1.0 l 5.0 l	8FX 351 214-031 8FX 351 214-021 8FX 351 214-101
	Hybrid vehicles	electric compressors	R1234yf, R134a			
	Refrigerator trucks (fresh product vehicles)	Piston compressors**	R1234yf R134a, R507a, R500, R12			
	Refrigerator trucks (frozen product vehicles)	Piston compressors**	R507a, R502, R22			

Product	Application	Compressor type	Refrigerant	Viscosity Class	Contents	Part number
	Vehicle air-conditioning systems*	All types** (except impeller type)	R404a, R407c, R401b, R401c, R409a, R409b	AA2 (ISO 32)	1.0 l	8FX 351 214-061
	Refrigerator trucks (fresh product vehicles)	Piston compressors**	R404a, R407c, R409b			
	Refrigerator trucks (frozen product vehicles)	Piston compressors**	R404a, R407c, R402a, R403a, R408a			
	Vehicle air-conditioning systems*	Impeller-type compressors**	R134a, R413a	AA3 (ISO 100)	1.0 l	8FX 351 214-081

Product	Application	Compressor type	Refrigerant	Viscosity Class	Contents	Part number
PAO Oil 68 Plus UV	Vehicle air-conditioning systems*	All types** (except impeller type)	R134a, R413a, R22, R12	AA1 (ISO 68) AA1 (ISO 68) AA1 (ISO 68)	500 ml 1.0 l 5.0 l	8FX 351 214-201 8FX 351 214-211 8FX 351 214-221
	Refrigerator trucks (fresh product vehicles)	Piston compressors**	R134a, R507a, R500, R12			
	Refrigerator trucks (frozen product vehicles)	Piston compressors**	R507a, R502, R22			
	Vehicle air-conditioning systems*	All types** (except impeller type)	R404a, R407c, R401b, R401c, R409a, R409b	AA2 (ISO 32)	1.0 l	8FX 351 214-261
	Refrigerator trucks (fresh product vehicles)	Piston compressors**	R404a, R407c, R409b			
	Refrigerator trucks (frozen product vehicles)	Piston compressors**	R404a, R407c, R402a, R403a, R408a			

Product	Application	Compressor type	Refrigerant	Viscosity Class	Contents	Part number
	Vehicle air-conditioning systems*	Impeller-type compressors**	R134a, R413a	AA3 (ISO 100)	1.0 l	8FX 351 214-281
POE Oil	Hybrid vehicles	electric compressors	R134a		120 ml	8FX 351 213-111

* Passenger cars, trucks, agricultural and construction machinery

** Except electrical compressors

The designated use of compressor oils depends on the type of compressor type selected and refrigerant used. Choosing the wrong oil can cause damage. Vehicle or manufacturer-specific instructions must be followed carefully.

THE OILS IN COMPARISON

Type of oil	Use	Note
<p>PAG Oils for refrigerant R134a</p>	<p>Different grades of PAG Oil with different flow properties (viscosities) are available for use with refrigerant R134a.</p> <p>As PAG Oils are hygroscopic, cans do not have a long shelf life once opened.</p>	<p>Standard PAG Oils are not suitable for refrigerant R1234yf or for electrically powered air conditioning compressors</p>
<p>PAG Oil YF for refrigerant R1234yf</p>	<p>Different PAG oils with different flow properties (viscosities) are still available for use with refrigerant R1234yf.</p> <p>What makes these PAG oils from Behr Hella Service so special is that they are not only suitable for use with R1234yf, but can also be used with the refrigerant R134a.</p> <p>As PAG Oils are hygroscopic, cans do not have a long shelf life once opened.</p>	<p>PAG Oil YF is suitable for both of the refrigerants R1234yf and R134a</p>
<p>PAO Oil for refrigerant R134a, partly for refrigerant R1234yf and other refrigerants</p>	<p>Can be used as an alternative to the various PAG oils that are offered for R134a (has the advantage of not being hygroscopic, i.e. unlike other oils, it does not absorb moisture from the ambient air).</p> <p>The 3 different grades of PAO Oil that Behr Hella Service offers (AA1, AA2 und AA3) can be used in conjunction with numerous different refrigerants (see product overview).</p>	<p>The PAO Oil AA1 Clearversion can also be used with the new refrigerant R1234yf and also in electric driven compressors in hybrid vehicles.</p>
<p>POE Oil for refrigerant R134a</p>	<p>Can be used on all hybrid vehicles with an electric compressor that are filled with POE Oil at the factory (some electrically powered compressors for hybrid vehicles are also filled with special PAG Oil at the factory).</p>	<p>Not suitable for refrigerant R1234yf</p>

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Alfa Romeo							
145/146 1,3/1,4/1,6/1,7	1994-97	R134a	700	SP10	PAO 68 or PAG ISO 46	225-255	
145/146 Twin Spark	1996-00	R134a	700	Dens Oil 9	PAO 68 or PAG ISO 10	130-150	
145/146 D-Turbo	1994-00	R134a	700	UCON RL 488	PAO 68 or PAG ISO 150	221-251	
145/146 1,9 JTD	1998-00	R134a	700	SP20	PAO 68 or PAG ISO 10	135	
147 1,6i/1,9JTD/2,0i/1,9JTD 16V/3,2i	2001-12	R134a	550	PAG	PAO 68 or PAG ISO 46	135	
155	1994-97	R134a	700	SP10	PAO 68 or PAG ISO 46	225-255	
155 1,6/1,8/2,0 16V	1995-97	R134a	700	Dens Oil 8	PAO 68 or PAG ISO 46	260-320	
155 1,9 Diesel	1993-97	R134a	700	UCON RL 488	PAO 68 or PAG ISO 150	236	
156	1997-02	R134a	650	SP20	PAO 68 or PAG ISO 10	130	
156 1,9 JTD	1997-02	R134a	650	SP20	PAO 68 or PAG ISO 10	130	
156 2,4 JTD	1997-02	R134a	650	Dens Oil 9	PAO 68 or PAG ISO 10	150	
156 Facelift	2002-09	R134a	500	SP10	PAO 68 or PAG ISO 46	130	
156 Facelift 2,4JTD 20V	2003-06	R134a	550	Dens Oil 9	PAO 68 or PAG ISO 10	150	
156 Facelift 2,4 JTD	2002-03	R134a	500	Dens Oil 9	PAO 68 or PAG ISO 10	150	
159	2005-	R134a	460	ZXL 100 PG	PAO 68 or PAG ISO 46	130	
164	1994-98	R134a	1200	Sanden E13 M6	PAO 68	120-150	
166	1998-01	R134a	700	SP10	PAO 68 or PAG ISO 46	135	
166	2001-2009	R134a	650	SP10	PAO 68 or PAG ISO 46	135	
Brera	2006-	R134a	550	PAG	PAO 68 or PAG ISO 46	130	
Giulietta	2010-	R134a	450	PAG	PAO 68	130	



Alfa Romeo

GT	2004-10	R134a	550	SP10	PAO 68 or PAG ISO 46	130
GT Coupe 1,9JTD	2003-06	R134a	600	PAG	PAO 68	n.a.
GTV 3,0 V6 24V	1997-06.99	R134a	650-750	SP10	PAO 68 or PAG ISO 46	230-250
GTV 3,0 V6 24V	06.99-04	R134a	550-600	SP10	PAO 68 or PAG ISO 46	230-250
mito	2008-	R134a	450	PAG	PAO 68 or PAG ISO 46	130
Spider	2006-	R134a	460	ZXL100PG	PAO 68 or PAG ISO 46	130
Spider/GTV 1,8	1998-06.99	R134a	650-700	SP10	PAO 68 or PAG ISO 46	260-320
Spider/GTV 1,8	06.99-01	R134a	550-600	SP10	PAO 68 or PAG ISO 46	260-320
Spider/GTV 2,0	1996-06.99	R134a	650-750	Dens Oil 9	PAO 68 or PAG ISO 10	260-320
Spider/GTV 2,0	06.99-03	R134a	550-600	Dens Oil 9	PAO 68 or PAG ISO 10	260-320
Spider 3.0 V6/GTV 2.0 Turbo	1996-06.99	R134a	650-750	SP10	PAO 68 or PAG ISO 46	225-255
Spider 3.0 V6/GTV 2.0 Turbo	06.99-01	R134a	550-600	SP10	PAO 68 or PAG ISO 46	225-255

Aston Martin

DB7 Vantage 3,2	1994-04	R134a	870-930	PAG	PAO 68	n.a.
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Audi

80	10.92-95	R134a	650-700	G052 154 A2	PAO 68 or PAG ISO 46	250-300
80 2,3	10.92-94	R134a	750-800	G052 154 A2	PAO 68 or PAG ISO 46	250-300



Audi

100/A6/S4/S6 - Zexel compressor	10.92-97	R134a	750-800	G052 154 A2	PAO 68 or PAG ISO 46	250-300
Denso compressor	10.92-97	R134a	750-800	G052 300 A2	PAO 68 or PAG ISO 46	250-300
A1 (8X) Sanden/Delphi compressor	2010-	R134a	500	PAG	PAG 46 or PAO 68	110
Denso compressor	2010-	R134a	500	PAG	PAG 46 or PAO 68	90
A2 1,2TDI/1,4i/1,4TDI/1,6FSI	2000-01	R134a	500-550	PAG	PAO 68 or PAG ISO 46	170-190
A2 1,2TDI/1,4i/1,4TDI/1,6FSI	2001-06	R134a	480-530	PAG	PAO 68 or PAG ISO 46	170-190
A3 (8L1)	1996-03	R134a	750-800	G052 154 A2	PAO 68 or PAG ISO 46	120-150
A3 (8P1/8PA/Cabrio)	05.03-10.03	R134a	500-550	PAG	PAO 68 or PAG ISO 46	170-190
A3 (8P1/8PA/Cabrio) Zexel/Valeo/Sanden compressor	10.03-07	R134a	525	PAG	PAG 46 or PAO 68	115
Denso 7SEU17 compressor	10.03-07	R134a	525	PAG	PAG 46 or PAO 68	140
A3 (8P1/8PA/Cabrio) Denso 6SEU14 compressor	06.07-	R134a	525	PAG	PAG 46 or PAO 68	90
Delphi compressor	08.07-	R134a	525	PAG	PAG 46 or PAO 68	110
A3 (8V) Denso/Delphi Kompressor	05.2012-	R134a	500	PAG	PAO 68 or PAG ISO 46	110
Sanden compressor	05.2012-	R134a	500	PAG	PAO 68 or PAG ISO 46	80
A3 e-tron (8V)	09.2014-	R134a	500	G 052 535 M		120
A4/S4 - Zexel compressor	94-11.97	R134a	650-700	G052 154 A2	PAO 68 or PAG ISO 46	250-300
Denso compressor	94-11.97	R134a	650-700	G052 300 A2	PAO 68 or PAG ISO 46	250-300
A4/S4 - Zexel compressor; Showa condensor	11.97-00	R134a	700-750	G052 154 A2	PAO 68 or PAG ISO 46	250-300
Denso compressor; Showa condensor	11.97-00	R134a	700-750	G052 300 A2	PAO 68 or PAG ISO 46	250-300

						 ml
Audi						
A4/S4 - Zexel compressor; AWG condensor	11.98-12.98	R134a	550-600	G052 154 A2	PAO 68 or PAG ISO 46	250-300
Denso compressor; AWG condensor	11.98-12.98	R134a	550-600	G052 300 A2	PAO 68 or PAG ISO 46	250-300
A4 (8E, B6) petrol	11.00-11.04	R134a	480-530	PAG	PAO 68 or PAG ISO 46	170-190
A4 (8E, B6) diesel	11.00-11.04	R134a	480-530	G052 300 A2	PAO 68 or PAG ISO 46	180
A4 (8EC, 8ED)	11.04-	R134a	450-550	G052 300 A2	PAO 68 or PAG ISO 46	n.a.
A4 (8K) compressor: Denso 6SEU14+7SEU17	2007-	R134a	600	PAG	PAO 68 or PAG ISO 46	150
A4 Denso 6SAS14/SES14 compressor	2011-	R134a	600	PAG	PAG 46 or PAO 68	110
A5/ A5 Cabrio compressor: Denso 6SEU14+7SEU17	2007-	R134a	600	PAG	PAO 68 or PAG ISO 46	150
A5 Denso 6SAS14/SES14 compressor	2011-	R134a	600	PAG	PAG 46 or PAO 68	110
A6 - Zexel compressor	97-11.97	R134a	800-850	G052 154 A2	PAO 68 or PAG ISO 46	250-300
Denso compressor	97-11.97	R134a	800-850	G052 300 A2	PAO 68 or PAG ISO 46	250-300
A6 - Zexel compressor	11.97-08.98	R134a	850-900	G052 154 A2	PAO 68 or PAG ISO 46	250-300
Denso compressor	11.97-08.98	R134a	850-900	G052 300 A2	PAO 68 or PAG ISO 46	250-300
A6 - Zexel compressor (e*)	08.98-04.99	R134a	750-800	G052 154 A2	PAO 68 or PAG ISO 46	250-300
Denso compressor (e*)	08.98-04.99	R134a	750-800	G052 300 A2	PAO 68 or PAG ISO 46	250-300
A6 - Zexel compressor (3*)	10.98-12.98	R134a	550-600	G052 154 A2	PAO 68 or PAG ISO 46	250-300
Denso compressor (3*)	10.98-12.98	R134a	550-600	G052 300 A2	PAO 68 or PAG ISO 46	250-300
A6 V8 - Zexel compressor	98-04.99	R134a	550-600	G052 154 A2	PAO 68 or PAG ISO 46	250-300
Denso compressor	98-04.99	R134a	550-600	G052 300 A2	PAO 68 or PAG ISO 46	250-300
A6 1,8i/1,8T/2,4i/2,7T/2,8i	04.99-04.04	R134a	650-700	G052 154 A2	PAO 68 or PAG ISO 46	250-300



Audi

A6 2,0i/3,0i	04.99-04.04	R134a	550-600	G052 300 A2	PAO 68 or PAG ISO 46	250-300
A6 1,9TDI (AFN/AVF)	04.99-04.04	R134a	550-600	PAG	PAO 68 or PAG ISO 46	250-300
A6 1,9TDI (AVG/AWX)	04.99-04.04	R134a	650-700	PAG	PAO 68 or PAG ISO 46	250-300
A6 1,9TDI (AJM)	04.99-10.99	R134a	650-700	PAG	PAO 68 or PAG ISO 46	250-300
A6 1,9TDI (AJM)	10.99-04.04	R134a	550-600	PAG	PAO 68 or PAG ISO 46	250-300
A6 2,5TDI (AFB/AYM)	04.99-04.04	R134a	550-600	PAG	PAO 68 or PAG ISO 46	250-300
A6 2,5TDI (AKE)	04.99-04.04	R134a	650-700	PAG	PAO 68 or PAG ISO 46	250-300
A6 2,5TDI (AKN/BAU/BCZ/BDG/BDH/BFC)	04.99-10.99	R134a	650-700	PAG	PAO 68 or PAG ISO 46	250-300
A6 2,5TDI (AKN/BAU/BCZ/BDG/BDH/BFC)	10.99-04.04	R134a	550-600	PAG	PAO 68 or PAG ISO 46	250-300
A6 (4F)	04.04-2011	R134a	510-550	G052 300 A2	PAO 68 or PAG ISO 46	120-140
A6 (4G/C7) Denso/Zexel compressor	2011-	R134a	570	PAG	PAO 68 or PAG ISO 46	120
A7 Denso/Zexel compressor	2010-	R134a	570	PAG	PAO 68 or PAG ISO 46	120
A8 - Zexel compressor	94-11.97	R134a	750-800	G052 154 A2	PAO 68 or PAG ISO 46	250-300
Denso compressor	94-11.97	R134a	750-800	G052 300 A2	PAO 68 or PAG ISO 46	250-300
A8 - Zexel compressor	11.97-00	R134a	800-850	G052 154 A2	PAO 68 or PAG ISO 46	250-300
Denso compressor	11.97-00	R134a	800-850	G052 300 A2	PAO 68 or PAG ISO 46	250-300
A8 (4E) 3,0i/ 3,7i/ 4,2i	2002-09	R134a	600-640	PAG	PAO 68 or PAG ISO 46	200
A8 (4E) 6,0i/ 4,0TDi	2002-09	R134a	600-640	PAG	PAO 68 or PAG ISO 46	150
A8 (4H)	2010-	R134a	780	PAG	PAO 68 or PAG ISO 46	130
with air conditioning at the rear	2010-	R134a	930	PAG	PAO 68 or PAG ISO 46	150



Audi

A8 (4H) Motor: 8 Zylinder TDI	2010-	R134a	740	PAG	PAO 68 or PAG ISO 46	180
with air conditioning at the rear	2010-	R134a	915	PAG	PAO 68 or PAG ISO 46	190
A8 (4H) Hybrid	2012-	R134a	1080	n.a.	PAO 68 AA1	180
Allroad 4BH	2000-06	R134a	750-850	PAG	PAO 68 or PAG ISO 46	240
Allroad/A6 (4FH) 2,7TDi/ 3,0TDi/ 3,2FSi/ 4,2FSi	2006-	R134a	510-550	PAG	PAO 68 or PAG ISO 46	120-140
Avant RS2	1994-95	R134a	750-800	G052 154 A2	PAO 68 or PAG ISO 46	250-300
Cabrio	10.92-00	R134a	650-700	G052 154 A2	PAO 68 or PAG ISO 46	250-300
Cabrio 2,3	10.92-94	R134a	750-800	G052 154 A2	PAO 68 or PAG ISO 46	250-300
Coupé	10.92-96	R134a	650-700	G052 154 A2	PAO 68 or PAG ISO 46	250-300
Coupé 2,3	10.92-94	R134a	750-800	G052 154 A2	PAO 68 or PAG ISO 46	250-300
Coupé S2 - Zexel compressor	10.92-00	R134a	750-800	G052 154 A2	PAO 68 or PAG ISO 46	250-300
Denso compressor	10.92-00	R134a	750-800	G052 300 A2	PAO 68 or PAG ISO 46	250-300
Q3 Zexel/Valeo/Sanden/Delphi compressor	2011-	R134a	520	PAG	PAG 46 or PAO 68	110
Denso 6SEU14 compressor	2011-	R134a	520	PAG	PAG 46 or PAO 68	90
Q3 Denso 7SEU17 compressor	2011-	R134a	520	PAG	PAG 46 or PAO 68	140
Q5 compressor: Denso 6SEU14+7SEU17	2008-	R134a	600	PAG	PAO 68 or PAG ISO 46	150
Q5 Denso 6SAS14/SES14 compressor	2011-	R134a	600	PAG	PAG 46 or PAO 68	110
Q5 hybrid	2011-	R134a	520	n.a.	n.a.	200
Q7 4,2FSi/3,0TDI/3,6FSi/4,2TDi/6,0TDi	2005-	R134a	700-750	Dens Oil 8	PAO 68 or PAG ISO 46	130-160
with air conditioning at the rear	2005-	R134a	1050-1100	Dens Oil 8	PAO 68 or PAG ISO 46	230-260



Audi							
RS 3 with 5 cylinder motor	2011-	R134a	500	PAG	PAG 46 or PAO 68	n.a.	
RS 4	2012-	R134a	570	PAG	PAG 46 or PAO 68	n.a.	
RS 5	2010-	R134a	570	PAG	PAG 46 or PAO 68	n.a.	
S4 Zexel/Denso compressor	2009-	R134a	600	PAG	PAG 46 or PAO 68	150	
S5 Zexel/Denso compressor	2010-	R134a	600	PAG	PAG 46 or PAO 68	150	
R8 compressor: Denso 7SEU17 throttle valve: red	2007-	R134a	650	PAG	PAO 68 or PAG ISO 46	150	
S6	2005-2010	R134a	530	PAG	PAO 68 or PAG ISO 46	130	
TT (8N) condenser with 20 mm depth	1998-06	R134a	750-800	G052 154 A2	PAO 68 or PAG ISO 46	120-150	
TT (8N) condenser with 16 mm depth	1998-2006	R134a	650	G052 154 A2	PAO 68 or PAG ISO 46	135	
TT (8J)	2006-	R134a	500-550	PAG	PAO 68 or PAG ISO 46	80-100	
Delphi compressor	2006-	R134a	500-550	PAG	PAO 68 or PAG ISO 46	100-120	
V8	10.92-93	R134a	850-900	G052 154 A2	PAO 68 or PAG ISO 46	250-300	

BMW							
1-series (E81/82/87/88)	2004-13	R134a	620	PAG	PAO 68 or PAG ISO 46	n.a.	
1-series (F20/21)	2011-	R134a	550	PAG	PAO 68 or PAG ISO 46	n.a.	
2-series	10.2013-	R134a	480	PAG	PAO 68 or PAG ISO 46	n.a.	
3-series (E30)	1992-93	R134a	775-825	81 229 407 724	PAO 68 or PAG ISO 46	160	



BMW

3-series (E36) - Denso compressor (1*)	1993-00	R134a	975-1025	81 229 407 724	PAO 68 or PAG ISO 46	100-140
Denso compressor (2*)	1993-00	R134a	800-850	81 229 407 724	PAO 68 or PAG ISO 46	100-140
Seiko compressor (1*)	1993-00	R134a	975-1025	PAG	PAO 68 or PAG ISO 10	140-160
Seiko compressor (2*)	1993-00	R134a	800-850	PAG	PAO 68 or PAG ISO 10	140-160
3-series (E46) petrol motor: M43/M43TU/M52/M54/N40/N42/S54	1998-05	R134a	715-765	PAG	PAO 68 or PAG ISO 46	150
3-series (E46) diesel motor: M47/M47TU/M57	2001-05	R134a	670-690	PAG	PAO 68 or PAG ISO 46	150
3-series (E90/E91/E92/E93) Denso compressor 7SEU17C	2005-12	R134a	600	PAG	PAO 68 or PAG ISO 46	180
4-series	07.2013-	R134a	550	PAG	PAO 68 or PAG ISO 46	n.a.
5-series (E34) - Denso compressor (1*)	1993-96	R134a	1525-1575	81 229 407 724	PAO 68 or PAG ISO 46	160-190
Denso compressor (2*)	1993-96	R134a	1450	81 229 407 724	PAO 68 or PAG ISO 46	160-190
Seiko compressor (1*)	1993-96	R134a	1525-1575	PAG	PAO 68 or PAG ISO 10	180-190
Seiko compressor (2*)	1993-96	R134a	1450	PAG	PAO 68 or PAG ISO 10	180-190
5-series (E39) - Seiko compressor	96-09.98	R134a	1200-1250	PAG	PAO 68 or PAG ISO 10	145-175
5-series (E39) - Seiko compressor	09.98-03	R134a	740-760	PAG	PAO 68 or PAG ISO 10	145-175
525td/tds (E39) - Seiko compressor	96-09.98	R134a	1185-1235	PAG	PAO 68 or PAG ISO 10	145-175
525td/tds (E39) - Seiko compressor	09.98-03	R134a	1290-1310	PAG	PAO 68 or PAG ISO 10	145-175
530d (E39) - Seiko compressor	1998-03	R134a	670-690	PAG	PAO 68 or PAG ISO 10	145-175
5-series (E60/61) 520i/523i/525i/530i/535i/540i/545i/550i/M5	07.2003-10	R134a	800-820	PAG	PAO 68 or PAG ISO 46	180
5-series (E60/61) 520d/525d/530d/535d	07.2003-10	R134a	690-710	PAG	PAO 68 or PAG ISO 46	180



BMW

5-series (F10/F11)	2010-	R134a	850	PAG	PAO 68 or PAG ISO 46	n.a.
5-series Gran Turismo (F07)	2009-	R134a	850	PAG	PAO 68 or PAG ISO 46	n.a.
6-series (E63/E64) 630i/645Ci/650i motor: N52/N62/N53/S85	01.04-11	R134a	800-820	PAG	PAO 68 or PAG ISO 46	180
6-series (F12/F13) 640i/650i motor: N55/N63	2011-	R134a	850	PAG	PAO 68	n.a.
7-series (E32) - Denso compressor	1993-94	R134a	1525-1575	81 229 407 724	PAO 68 or PAG ISO 46	160-190
Seiko compressor	1993-94	R134a	1525-1575	PAG	PAO 68 or PAG ISO 10	160-200
Denso compressor with air condition at the rear	1993-94	R134a	1675-1725	81 229 407 724	PAO 68 or PAG ISO 46	180-210
Seiko compressor with air condition at the rear	1993-94	R134a	1675-1725	PAG	PAO 68 or PAG ISO 10	160-200
7-series (E38) - Seiko compressor	94-09.98	R134a	1185-1235	PAG	PAO 68 or PAG ISO 10	130-190
7-series (E38) - Seiko compressor	09.98-01	R134a	670-690	PAG	PAO 68 or PAG ISO 10	130-190
750 L7 (E38) - Seiko compressor	1994-01	R134a	1245-1295	PAG	PAO 68 or PAG ISO 10	130-190
Seiko compressor with air condition at the rear	1994-01	R134a	1375-1425	PAG	PAO 68 or PAG ISO 10	130-190
725 tds (E38) - Seiko compressor	1996-01	R134a	1185-1235	PAG	PAO 68 or PAG ISO 10	130-190
7-series (E65/E66)	2002-05	R134a	800-820	81 229 407 724	PAO 68 or PAG ISO 46	n.a.
7-series (E65/E66)	07.2005-08	R134a	810	81 229 407 724	PAO 68 or PAG ISO 46	180
7-series (F01/F02/F04) motor: N54/N63/N57/N74	10.2008-	R134a	900	PAG	PAO 68 or PAG ISO 46	n.a.
with air conditioning at the rear	10.2008-	R134a	1000	PAG	PAO 68 or PAG ISO 46	n.a.
8-series (E31) - Denso compressor	1993-99	R134a	1525-1575	81 229 407 724	PAO 68 or PAG ISO 46	160-190
Seiko compressor	1993-99	R134a	1525-1575	PAG	PAO 68 or PAG ISO 10	160-200
X1 (E84)	2009-	R134a	600	PAG	PAO 68 or PAG ISO 46	n.a.


BMW

X3 (E83) 2,0d/3,0d motor: M47T2/M57TU	2004-10	R134a	670-690	PAG	PAO 68 or PAG ISO 10	n.a.
X3 (E83) 2,0i/2,5i/3,0i motor: M54/N46/N52K	2004-10	R134a	730-750	PAG	PAO 68 or PAG ISO 10	n.a.
X3 (E83) 2,0d (N47)	2007-10	R134a	690-710	PAG	PAO 68 or PAG ISO 10	n.a.
X3 (F25)	09.10-	R134a	480	PAG	PAO 68 or PAG ISO 46	n.a.
X5 (E53)	2000-07	R134a	430-450	PAG	PAO 68 or PAG ISO 10	n.a.
X5 (E70) 3,5d/4,4i/3,0d/3,0Sd/3,0Si/4,8i/M	2007-	R134a	690-710	PAG	PAO 68 or PAG ISO 10	150
X5 (F15)	07.2013-	R134a	675	PAG	PAO 68 or PAG ISO 46	n.a.
X6 (E71/E72) 3,0dx/3,5dx/3,5ix/5,0ix/4,0d (M57T2/N54/N63/N57)	2008-	R134a	690-710	PAG	PAO 68 or PAG ISO 10	150
X6 (E71/E72) Active hybrid motor: N63	2009-	R134a	925	n.a.	n.a.	n.a.
X6 (F06) Gran Coupe	06.2012-	R134a	850	PAG	PAO 68 or PAG ISO 46	n.a.
Z3 - Denso compressor (1*)	1997-03	R134a	975-1025	81 229 407 724	PAO 68 or PAG ISO 46	100-140
Denso compressor (2*)	1997-03	R134a	800-850	81 229 407 724	PAO 68 or PAG ISO 46	100-140
Seiko compressor (1*)	1997-03	R134a	975-1025	PAG	PAO 68 or PAG ISO 10	140-160
Seiko compressor (2*)	1997-03	R134a	800-850	PAG	PAO 68 or PAG ISO 10	140-160
Z4 (E85)	2003-05	R134a	730-750	PAG	PAO 68	n.a.
Z4 (E89) Sdrive 23i/30i/35i/35is	2009-	R134a	550	PAG	PAO 68 or PAG ISO 46	n.a.
Z8 (E52)	2000-03	R134a	710	PAG	PAO 68	n.a.
Mini One/Cooper/Cooper S (R50/53)	2001-09	R134a	405-425	PAG	PAO 68	n.a.
Mini / Mini Clubman / Mini Countryman (R56/57, R55, R60,R61)	2007-	R134a	490	81 229 407 724	PAO 68 or PAG ISO 46	n.a.



Cadillac							
BLS 2,0T/2,0T flex power/2,8iV6/1,9D	2005-10	R134a	670	164759106	PAO 68 or PAG ISO 46	130	
CTS 2,8iV6 / 3,6iV6 (LY7)	2005-08	R134a	590	PAG	PAO 68 or PAG ISO 46	140	
CTS 2,8iV6 / 3,6iV6 (LLT)	2008-	R134a	550	PAG	PAO 68 or PAG ISO 46	110	
SRX 3,6iV6 / 4,6iV8	2004-10	R134a	570	PAG	PAO 68 or PAG ISO 46	180	
with air conditioning at the rear	2004-10	R134a	800	PAG	PAO 68 or PAG ISO 46	180	
Chevrolet							
Aveo/Kalos (LHD) GM/Delphi/Harrison V5	05.2005-11	R134a	520	UCON RL488	PAO 68 or PAG ISO 150	200	
Aveo/Kalos (RHD) GM/Delphi/Harrison V5	05.2005-11	R134a	570	UCON RL488	PAO 68 or PAG ISO 150	200	
Aveo/Kalos (LHD) Delphi SP10 compressor	05.2005-11	R134a	520	PAG	PAO 68	150	
Aveo/Kalos (RHD) Delphi SP10 compressor	05.2005-11	R134a	570	PAG	PAO 68	150	
Aveo with petrol engine	2011-	R134a	500	PAG	PAO 68	110	
Aveo with diesel engine	2011-	R134a	580	PAG	PAO 68	125	
Captiva (LHD) 2.4i/3.2iV6/3.0i	2007-	R134a	660	RL897/EOIV	PAO 68 or PAG ISO 61	150	
Captiva (LHD) 2.0 Diesel/2.2 Diesel	2007-	R134a	520	RL897/EOIV	PAO 68 or PAG ISO 61	150	
Cruze	2009-	R134a	650	PAG	PAO	n.a.	
Epica (LHD)	2008-	R134a	820	PAG	PAO 68	220	
Epica (RHD)	2008-	R134a	880	PAG	PAO 68	220	
HHR 2,4i	2008-	R134a	410	PAG	PAO 68	125	
Lacetti/Nubira (LHD)	2005-	R134a	670	PAG	PAO 68	175	



Chevrolet

Lacetti/Nubira (RHD)	2005-	R134a	670	PAG	PAO 68	175
Malibu 2,4i/2,0D VCDi	2012-	R134a	680	PAG	PAO 68	150
Malibu 2,4i/2,0D VCDi	2012-	R1234yf	600	n.a.	n.a.	n.a.
Matiz (LHD)	2005-10	R134a	330	PAG	PAO	110
Matiz (RHD)	2005-10	R134a	380	PAG	PAO	110
Orlando 1,8i / 2,0D	2011-	R134a	650	PAG	PAO 68	n.a.
Spark (LHD)	2005-10	R134a	330	PAG	PAO 68	110
Spark (RHD)	2005-10	R134a	380	PAG	PAO 68	110
Spark	03.2010-	R134a	450	PAG	PAO	110
Volt	2011-	R134a	950	POE	POE	180

Chrysler (Jeep)

300 C	2004-06	R134a	740	ND 8	PAO 68 or PAG ISO 46	180
300 M 2,7i/3,5i	1998-04	R134a	710	PAG	PAO 68	n.a.
Cherokee	1994-96	R134a	900	SP20	PAO 68 or PAG ISO 10	240
Cherokee	1997-00	R134a	567	SP20	PAO 68 or PAG ISO 10	240
Cherokee 2,8CRD	2008-	R134a	510	PAG	PAO 68 or PAG ISO 46	150
Grand Cherokee	1993-96	R134a	795	Dens Oil 8	PAO 68 or PAG ISO 46	230
Grand Cherokee	1997-6.99	R134a	680	Dens Oil 8	PAO 68 or PAG ISO 46	170
Grand Cherokee (WJ/WG)	6.1999-05	R134a	680	ND 8	PAO 68 or PAG ISO 46	170



Chrysler (Jeep)

Grand Cherokee (WH)	2005-	R134a	680	ND 8	PAO 68 or PAG ISO 46	130
Commander 3,0DCRD	2006-	R134a	680	Dens Oil 8	PAO 68 or PAG ISO 46	150
with air conditioning at the rear	2006-	R134a	960	Dens Oil 8	PAO 68 or PAG ISO 46	220
Compass 2,0CRD/2,4i	2006-	R134a	510	ND8	PAO 68 or PAG ISO 46	110
Crossfire/Crossfire Roadster	2003-09	R134a	850	SP15	PAO 68 or PAG ISO 46	130
Neon	1995-99	R134a	821	Dens Oil 8	PAO 68 or PAG ISO 46	140
Neon II	08.99-06	R134a	850	ND 8	PAO 68 or PAG ISO 46	200
Patriot 2,0CRD/2,4i	2007-	R134a	510	ND8	PAO 68 or PAG ISO 46	110
PT Cruiser petrol	2000-2002	R134a	710	Dens Oil 8	PAO 68 or PAG ISO 46	160
PT Cruiser petrol	2002-2003	R134a	850	Dens Oil 8	PAO 68 or PAG ISO 46	180
PT Cruiser diesel	2002	R134a	595	Dens Oil 8	PAO 68 or PAG ISO 46	180
PT Cruiser diesel	2004-09	R134a	510	Dens Oil 8	PAO 68 or PAG ISO 46	180
Sebring	2001-04	R134a	640	PAG	PAO 68	n.a.
Sebring 2.4Turbo	2001-04	R134a	500	PAG	PAO 68	n.a.
Stratus 2,0i/ 2,5i	1994-2001	R134a	800	SP10	PAO 68 or PAG ISO 46	210
Voyager	1994-00	R134a	960	Dens Oil 8	PAO 68 or PAG ISO 46	150
with air conditioning at the rear	1994-00	R134a	1360	Dens Oil 8	PAO 68 or PAG ISO 46	220
Voyager (RG) petrol	2001-03	R134a	960	PAG	PAO 68	n.a.
Voyager (RG) petrol with air condition at the rear	2001-03	R134a	1310	PAG	PAO 68	n.a.
Voyager (RG) diesel	2001-03	R134a	910	PAG	PAO 68	n.a.



Chrysler (Jeep)

Yoyager (RG) petrol	2003-06	R134a	880	PAG	PAO 68	n.a.
Yoyager (RG) petrol with air condition at the rear	2003-06	R134a	1220	PAG	PAO 68	n.a.
Yoyager (RG) diesel	2003-06	R134a	790	PAG	PAO 68	n.a.
Grand Voyager 2,8CRD/3,8i	2008-	R134a	820	ND8	PAO 68 or PAG ISO 46	120
with air conditioning at the rear	2008-	R134a	1150	ND8	PAO 68 or PAG ISO 46	150
Wrangler	1994-96	R134a	900	SP20	PAO 68 or PAG ISO 10	240
Wrangler (TJ)	1996-06	R134a	565	ND8	PAO 68 or PAG ISO 46	240
Wrangler (JK) 2,8CRD/3,8i	2007-	R134a	510	PAG	PAO 68 or PAG ISO 46	150

Citroën

AX	1994-97	R134a	600-650	SP20	PAO 68 or PAG ISO 10	135
Berlingo	1996-02	R134a	850-900	SP10	PAO 68 or PAG ISO 46	135
Berlingo	2003-08	R134a	575	SP10	PAO 68 or PAG ISO 46	135
Berlingo (B9)	2008-	R134a	450	SP10	PAO 68 or PAG ISO 46	135
C1 1,0i	2005-12	R134a	420-480	ZXL200PG	PAO 68 or PAG ISO 10	80
C1 1,4HDi	2005-10	R134a	470-530	ZXL200PG	PAO 68 or PAG ISO 10	80
C2 up to orga no. 10041	2003-	R134a	625	SP10	PAO 68 or PAG ISO 46	135
C2 from orga no. 10042 (Europe)	2003-	R134a	500	SP10	PAO 68 or PAG ISO 46	135
C3 up to orga no. 10041	2002-10	R134a	625	SP10	PAO 68 or PAG ISO 46	135
C3 from orga no. 10042 (Europe)	2002-10	R134a	500	SP10	PAO 68 or PAG ISO 46	135



Citroën

C3 III	11.2009-	R134a	500	SP10	PAO 68 or PAG ISO 46	135
C4 1,4i/1,6i/2,0i/1,6Hdi/2,0Hdi	2004-11	R134a	425-475	SP10	PAO 68 or PAG ISO 46	135
C4 II 1,6Hdi/2,0Hdi/1,6THP/1,6VTi	2011-	R134a	440	SP10	PAO 68 or PAG ISO 46	135
C4-Aircross	2012-	R134a	500	PAG 46	PAO 68 or PAG ISO 46	75
C4-Cactus 1,2 i	2014-	R1234yf	420	SPA2	PAO 68 AA1 or PAG YF	85
C4-Cactus 1,6 Hdi	2014-	R1234yf	420	SPA2	PAO 68 AA1 or PAG YF	85
C5 1,8i/2,0i/3,0i	2001-04	R134a	650-700	SP10	PAO 68 or PAG ISO 46	135
C5 2,0D HDi	2001-04	R134a	650-700	Planetelf PAG 488	PAO 68 or PAG ISO 150	265
C5 II	2004-10	R134a	625	SP10	PAO 68 or PAG ISO 46	135
C5 II 2,2 HDi (DW12B) / 2,7Hdi	2006-2008	R134a	525	SP10	PAO 68 or PAG ISO 46	135
C5 III 1,6i/1,8i/2,0i/1,6Hdi/3,0Hdi	2008-	R134a	625	SP10	PAO 68 or PAG ISO 46	135
C5 III 2,0Hdi (RHF)	2008-	R134a	625	SP10	PAO 68 or PAG ISO 46	135
C5 III 2,0Hdi (RHE/RHH))	2010-	R134a	525	SP10	PAO 68 or PAG ISO 46	135
C6 2,7 HDi/2,2 HDi/3,0 HDi	2005-12	R134a	525	SP10	PAO 68 or PAG ISO 46	135
C6 3,0iV6	2005-09	R134a	625	SP10	PAO 68 or PAG ISO 46	135
C8 2,0Hdi/2,2Hdi	2002-14	R134a	540	SP10	PAO 68 or PAG ISO 46	135
C8 2,0i/3,0i/2,2i	2002-	R134a	675	SP10	PAO 68 or PAG ISO 46	135
C15 1,4i	2002-	R134a	675	PAG	PAO 68	135
C-Crosser	2007-	R134a	500	PAG	PAO 68 or PAG ISO 46	80
C-Elysee	11.2012-	R134a	425	PAG Zerol HD100	PAO 68 or PAG ISO 10	135



Citroën

C-Zero	2010-	R134a	325	ND11	POE	150
Dispatch/ Jumpy	1995-05	R134a	950-1000	SP10	PAO 68 or PAG ISO 46	135
DS3	2009-	R134a	500	SP10	PAO 68 or PAG ISO 10	135
DS4 1,6D HDi/1,6D e-HDi	2011-	R134a	425	SP10	PAO 68 or PAG ISO 46	90
Version is only valid for warm climates		R134a	425	SP10	PAO 68 or PAG ISO 46	115
DS4 2,0D HDi	2011-	R134a	425	SP10	PAO 68 or PAG ISO 46	110
Version is only valid for warm climates		R134a	425	SP10	PAO 68 or PAG ISO 46	135
DS4 1,6 THP/1,6VTi Denso compressor 5SEL12	2011-	R134a	425	SP10	PAO 68 or PAG ISO 46	90
Denso compressor 6SEL16	2011-	R134a	425	SP10	PAO 68 or PAG ISO 46	120
DS5 1,6D e-Hdi	2012-	R134a	450	SP10	PAO 68 or PAG ISO 46	90
DS5 2,0D HDi	2012-	R134a	450	SP10	PAO 68 or PAG ISO 46	110
DS5 1,6 THP Denso compressor 5SEL12	2012-	R134a	450	SP10	PAO 68 or PAG ISO 46	90
DS5 1,6 THP Denso compressor 6SEL16	2012-	R134a	450	SP10	PAO 68 or PAG ISO 46	120
Jumpy 1,6DHDi/2,0DHDi	01.2007-	R134a	540	SP10	PAO 68 or PAG ISO 46	135
with air conditioning at the rear, short wheelbase	01.2007-	R134a	850	SP10	PAO 68 or PAG ISO 46	180
with air conditioning at the rear, long wheelbase	01.2007-	R134a	950	SP10	PAO 68 or PAG ISO 46	200
Jumpy 2,0i	01.2007-	R134a	675	SP10	PAO 68 or PAG ISO 46	135
with air conditioning at the rear, short wheelbase	01.2007-	R134a	950	SP10	PAO 68 or PAG ISO 46	180
with air conditioning at the rear, long wheelbase	01.2007-	R134a	1075	SP10	PAO 68 or PAG ISO 46	200
Nemo	2008-	R134a	500	SP10	PAO 68 or PAG ISO 46	135



Citroën

Relay/Jumper	94-09.96	R134a	950-1050	SP20	PAO 68 or PAG ISO 10	135
with air conditioning at the rear	94-09.96	R134a	1150-1250	SP20	PAO 68 or PAG ISO 10	135
Relay/Jumper	10.96-02	R134a	750-850	SP20	PAO 68 or PAG ISO 10	135
with air conditioning at the rear	10.96-02	R134a	950-1050	SP20	PAO 68 or PAG ISO 10	135
Relay/Jumper II 2,0i/2,0D 2,2D 2,8D HDI	2002-06	R134a	500	SP20	PAO 68 or PAG ISO 10	135
with air conditioning at the rear	2002-06	R134a	700	SP20	PAO 68 or PAG ISO 10	180
Relay/Jumper III 2,2D HDI/3,0D Hdi	2006-	R134a	550	SP10	PAO 68 or PAG ISO 46	n.a.
with air conditioning at the rear	2006-	R134a	950	SP10	PAO 68 or PAG ISO 46	n.a.
Saxo	96-03.96	R134a	575-625	SP10	PAO 68 or PAG ISO 46	135
Saxo	04.96-00	R134a	750-800	SP10	PAO 68 or PAG ISO 46	135
Synergie/Evasion	1994-00	R134a	950-1000	SP10	PAO 68 or PAG ISO 46	135
Xantia - Sanden compressor SD 7H 15	1993-00	R134a	750-800	SP20	PAO 68 or PAG ISO 10	135
Sanden compressor SD 7V 16 (3*)	1993-00	R134a	850-900	SP10	PAO 68 or PAG ISO 46	135
Sanden compressor SD 7V 16 (4*)	1993-00	R134a	950-1000	SP10	PAO 68 or PAG ISO 46	135
Xantia 3,0	1997-00	R134a	725	SP10	PAO 68 or PAG ISO 46	135
Xantia 1.9D/1.9D Turbo	02.96-00	R134a	800-850	UCON RL 488	PAO 68 or PAG ISO 150	250-280
XM 2,0	10.93-96	R134a	700-750	SP20	PAO 68 or PAG ISO 10	135
XM 2,0	1996-00	R134a	700-750	SP10	PAO 68 or PAG ISO 46	135
XM V6	10.93-00	R134a	700-750	SP10	PAO 68 or PAG ISO 46	135
XM 2,1/2,2 diesel	10.93-96	R134a	700-750	SP20	PAO 68 or PAG ISO 10	135



Citroën

XM 2,1/2,2 diesel	1996-00	R134a	700-750	SP10	PAO 68 or PAG ISO 46	135
XM 2,5 diesel	1994-96	R134a	800-850	SP20	PAO 68 or PAG ISO 10	135
XM 2,5 diesel	1996-00	R134a	800-850	SP10	PAO 68 or PAG ISO 46	135
Xsara petrol	1997-00	R134a	950-1000	SP10	PAO 68 or PAG ISO 46	135
Xsara diesel	1997-00	R134a	850-900	SP10	PAO 68 or PAG ISO 46	120-150
Xsara 1,6i/2,0i/2,0HDi (RHY)	2000-06	R134a	540-590	SP10	PAO 68 or PAG ISO 46	135
Xsara 2,0HDi (RHZ)	2000-06	R134a	540-590	SP10	PAO 68 or PAG ISO 46	250-280
Xsara Picasso	1999-00	R134a	625-725	SP10	PAO 68 or PAG ISO 46	135
ZX	1993-98	R134a	900-950	SP20	PAO 68 or PAG ISO 10	135

Dacia

Dokker engine: K7M/K9K	2012-	R134a	475	Planetelf 488	PAO 68 or PAG ISO 150	80
Dokker engine: H5F	2012-	R134a	475	Planetelf 488	PAO 68 or PAG ISO 150	150
Duster	2010-	R134a	475	SP10	PAO 68 or PAG ISO 46	135
Lodgy motor:K7M/K9K/H5F with Valeo compressor	2012-	R134a	475	ZXL200PG / PAG 488	PAO 68 or PAG ISO 10	80
Lodgy motor:K7M/K9K/H5F with Calsonic compressor	2012-	R134a	475	DH-PR / PAG 488	PAO 68 or PAG ISO 10	150
Logan / Logan MCV / Logan Van / Logan Pick up	2005-	R134a	780	PAG SP10	PAO 68 or PAG ISO 46	135
Sandero	2008-	R134a	475	SP10	PAO 68 or PAG ISO 46	135
Sandero II motor:D7F/D4F/K4M/K9K	2012-	R134a	660	SP10	PAO 68 or PAG ISO 46	135



Daewoo

Espero	1995-97	R134a	710-750	PAG	PAO 68 or PAG ISO 150	240
Evanda	2002-07	R134a	710-750	PAG	PAO 68 or PAG ISO 150	265
Kalos (LHD) Delphi/Harrison V5	2002-07	R134a	580-620	PAG	PAO 68 or PAG ISO 150	220
Kalos (RHD) Delphi/Harrison V5	2002-07	R134a	630-670	PAG	PAO 68 or PAG ISO 150	220
Korando	1999-03	R134a	650-750	ZXL 200 PG	PAO 68 or PAG ISO 10	n.a.
Lanos	1997-09.98	R134a	700-740	PAG	PAO 68 or PAG ISO 150	265
Lanos	10.98-01	R134a	700-740	PAG	PAO 68 or PAG ISO 150	265
Lanos	2001-03	R134a	700-740	PAG	PAO 68	220
Leganza	1997-03	R134a	810-850	PAG	PAO 68 or PAG ISO 150	265
Matiz	1998-05	R134a	500-550	PAG RL 244	PAO 68 or PAG ISO 46	150
Matiz (LHD)	2005-08	R134a	330	PAG	PAO 68	110
Matiz (RHD)	2005-08	R134a	380	PAG	PAO 68	110
Musso	1999-03	R134a	650-750	ZXL 200 PG	PAO 68 or PAG ISO 10	n.a.
Nexia	1995-97	R134a	710-750	PAG	PAO 68 or PAG ISO 150	240
Nubira	1997-10.98	R134a	730-770	PAG	PAO 68 or PAG ISO 150	265
Nubira	11.98-03	R134a	730-770	PAG	PAO 68 or PAG ISO 150	265
Nubira (J200, J150, J190)	2003-05	R134a	660-700	PAG RL488	PAO 68 or PAG ISO 150	220
Nubira (LHD)	2005-07	R134a	620-660	UCON RL488	PAO 68 or PAG ISO 150	180
Nubira (RHD)	2005-07	R134a	670-710	UCON RL488	PAO 68 or PAG ISO 150	180
Rezzo (LHD)	2000-04	R134a	730-770	PAG	PAO 68	220



Daewoo							
Rezzo (RHD)	2000-04	R134a	800-840	PAG	PAO 68	220	
Daihatsu							
Applause (A101)	1993-07.97	R134a	500-600	PAG	PAO 68	n.a.	
Applause (A101)	08.97-03	R134a	420-480	PAG	PAO 68	n.a.	
Charade (G200)	1993-03	R134a	600-700	PAG	PAO 68	n.a.	
Copen	09.03-	R134a	320-380	PAG	PAO 68	n.a.	
Cuore (L701)	10.98-03	R134a	350-410	PAG	PAO 68	n.a.	
Cuore VII (L251)	2003-07	R134a	350-410	PAG	PAO 68	n.a.	
Cuore VIII	04.2007-	R134a	300	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.	
Feroza (F300)	1993-03	R134a	500-600	PAG	PAO 68	n.a.	
Grand Move (G303)	1996-98	R134a	500-600	PAG	PAO 68	n.a.	
Grand Move (G301)	05.98-03	R134a	370-430	PAG	PAO 68	n.a.	
Materia (M4) 1,3i	10.2006-	R134a	350	PAG	PAO 68	70	
Move (L901)	10.96-03	R134a	350-410	PAG	PAO 68	n.a.	
Rocky (F73/78)	1993-03	R134a	500-600	PAG	PAO 68	n.a.	
Sirion (M100)	1998-08.00	R134a	380-420	PAG	PAO 68	n.a.	
Sirion (M110, M111) EJ-motor	09.00-05	R134a	350-410	PAG	PAO 68	n.a.	
Sirion (M101, M111) K3-motor	09.00-05	R134a	310-370	PAG	PAO 68	n.a.	
Sirion (M3)	01.05-	R134a	270-330	PAG	PAO 68	n.a.	



Daihatsu							
Terios (J100)	10.97-08.98	R134a	550-650	PAG	PAO 68	n.a.	
Terios (J100, J102)	09.98-05	R134a	370-430	PAG	PAO 68	n.a.	
Terios (J2) (LHD) 1,3i/1,5i	11.2005-	R134a	350	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.	
Terios (J2) (RHD) 1,3i/1,5i	11.2005-	R134a	300	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.	
Trevis	06.2006-	R134a	300	PAG	PAO 68	n.a.	
YRV (M201, M211)	2001-07	R134a	350-410	PAG	PAO 68	n.a.	
Dodge							
Avenger 2,0i/2,4i	2007-11	R134a	450	ND8	PAO 68 or PAG ISO 46	180	
Caliber	2006-	R134a	510	Dens Oil 8	PAO 68 or PAG ISO 46	120	
Journey 2,4i/2,0CRD	2008-	R134a	625	ND8	PAO 68 or PAG ISO 46	110	
with air conditioning at the rear	2008-	R134a	910	ND8	PAO 68 or PAG ISO 46	170	
Nitro	2007-	R134a	510	ND8	PAO 68 or PAG ISO 46	n.a.	
Fiat							
500	10.2007-	R134a	500	Dens Oil 8	PAO 68 or PAG ISO 46	80	
Barchetta	1996-06	R134a	600	Dens Oil 9	PAO 68 or PAG ISO 10	140-180	
Bravo/Brava - Denso compressor	1995-00	R134a	600-650	Dens Oil 9	PAO 68 or PAG ISO 10	140-180	
Harrison compressor V5	1995-00	R134a	600-650	UCON RL 488	PAO 68 or PAG ISO 150	236	
Bravo/Brava 1,9 JTD	1998-00	R134a	625-675	Dens Oil 8	PAO 68 or PAG ISO 46	60-100	



Fiat							
Bravo	04.2007-	R134a	500	Dens Oil 8	PAO 68 or PAG ISO 46	130	
Cinquecento	1991-97	R134a	700	PAG	PAO 68 or PAG ISO 46	100	
Cinquecento Sporting	1994-98	R134a	550	PAG	PAO 68 or PAG ISO 46	100	
Coupé 1,8	1996-00	R134a	740	Dens Oil 9	PAO 68 or PAG ISO 10	140-180	
Coupé 16V	1994-97	R134a	720-745	SP20	PAO 68 or PAG ISO 10	135	
Coupé 20V/20V Turbo	1996-01	R134a	500	Dens Oil 9	PAO 68 or PAG ISO 10	130-170	
Croma	1994-97	R134a	1100	Sanden E13 M6	PAO 68 or PAG ISO 10	135	
Croma 2,2i	2005-	R134a	700-760	SP10	PAO 68 or PAG ISO 46	105-135	
Croma 1,9JTD/1,9JTD16V	2005-	R134a	700-760	SP10	PAO 68 or PAG ISO 46	120-150	
Doblo 1,2i/1,6i/1,4i	2001-10	R134a	600	PAG	PAO 68 or PAG ISO 46	130	
Doblo 1,9JTD/1,3JTD	2002-10	R134a	600	Dens Oil 8	PAO 68 or PAG ISO 46	130	
Doblo/Doblo Cargo (152/223/263) 1,3 D	2010-	R134a	450	PAG 46	PAO 68 or PAG ISO 46	120	
Doblo/Doblo Cargo (152/223/263) 1,4i/1,6D/2,0D	2010-	R134a	450	PAG 46	PAO 68 or PAG ISO 46	85	
Ducato/Talento	1994-02	R134a	800-900	PAG	PAO 68 or PAG ISO 10	120-150	
with air conditioning at the rear	1994-02	R134a	950-1050	PAG	PAO 68 or PAG ISO 10	120-150	
Ducato (244)	2002-06	R134a	875-925	SP20	PAO 68 or PAG ISO 10	n.a.	
with air conditioning at the rear	2002-06	R134a	975-1025	SP20	PAO 68 or PAG ISO 10	n.a.	
Ducato (244) Panorama	2002-06	R134a	775-825	SP20	PAO 68 or PAG ISO 10	n.a.	
Ducato 2,2D/2,3D/3,0D	07.2006-	R134a	550	SP10	PAO 68 or PAG ISO 46	200	
with air conditioning at the rear	07.2006-	R134a	950	SP10	PAO 68 or PAG ISO 46	220	



Fiat

Fiorino	1997-00	R134a	n.a.	UCON RL 244	PAO 68	140-160
Fiorino	2008-	R134a	500	PAG	PAO 68 or PAG ISO 46	130
Grande Punto (199) 1,2i/1,4i/1,3D/1,9D	10.2005-	R134a	500	Dens Oil 8	PAO 68 or PAG ISO 46	130
Grande Punto (199)	2006-	R134a	480	PAG	PAO 68 or PAG ISO 46	130
Idea 1,3JTD/1,4i/1,9JTD/1,2i/1,6D	2004-11	R134a	470-530	PAG	PAO 68 or PAG ISO 46	130
Linea 1,4i / 1,4i16V / 1,3 D Multijet	2007-	R134a	500	ND8	PAO 68 or PAG ISO 46	130
Linea 1,6 D Multijet	2007-	R134a	460	ND8	PAO 68 or PAG ISO 46	130
Marea/Marengo	1996-00	R134a	600	Dens Oil 9	PAO 68 or PAG ISO 10	130-170
Multipla 1,6	1999-05	R134a	650	UCON RL 488	PAO 68 or PAG ISO 150	265
Multipla 1,6i	2005-11	R134a	650	Ucon RL488	PAO 68 or PAG ISO 150	265
Multipla 1,9 JTD	1999-05	R134a	650	SP20	PAO 68 or PAG ISO 10	130
Palio/Palio Weekend 1,2i/1,9D	1997-02	R134a	750	Dens Oil 8	PAO 68 or PAG ISO 46	60-100
Palio/Palio Weekend 1,2i	2002-06	R134a	600-650	Dens Oil 8	PAO 68 or PAG ISO 46	60-100
Palio/Palio Weekend 1,6i16V	1997-02	R134a	750	Dens Oil 9	PAO 68 or PAG ISO 10	100-115
Palio/Palio Weekend 1,6i16V	2002-06	R134a	600-650	Dens Oil 9	PAO 68 or PAG ISO 10	100-115
Palio/Palio Weekend 1,2i16V /1,9JTD/1,9D	2001-06	R134a	600-650	Dens Oil 8	PAO 68 or PAG ISO 46	60-100
Palio/Palio Weekend 1,7TD	1998-00	R134a	750	Dens Oil 9	PAO 68 or PAG ISO 10	150
Panda (169) 1,1i/1,2i	2003-11	R134a	470-530	PAG	PAO 68 or PAG ISO 46	80
Panda (169) 1,3JTD	2003-11	R134a	470-530	SP10	PAO 68 or PAG ISO 46	130
Panda (169) 1,4i	2006-	R134a	500	ND8	PAO 68 or PAG ISO 46	110



Fiat

Panda (312/319) 0,9i/1,2i/1,3D	02.2012-	R134a	500	Dens Oil 8	PAO 68 or PAG ISO 46	130
Punto	1993-99	R134a	650-700	Dens Oil 9	PAO 68 or PAG ISO 10	130-170
Punto (188) 1,2i/1,2i16V/1,9D	09.99-06.03	R134a	525-575	Dens Oil 8	PAO 68 or PAG ISO 46	60-100
Punto (188) 1,9DJTD	09.99-06.03	R134a	525-575	Dens Oil 8	PAO 68 or PAG ISO 46	60-100
Punto (188) 1,8i	09.99-06.03	R134a	525-575	Dens Oil 9	PAO 68 or PAG ISO 10	60-100
Punto (188) 1,2i/1,2i16V/1,9D	06.03-	R134a	525-575	Dens Oil 8	PAO 68 or PAG ISO 46	130
Punto 1,3JTD	06.03-	R134a	500	Dens Oil 8	PAO 68 or PAG ISO 46	130
Punto Evo	2009-03.12	R134a	480	ND8	PAO 68 or PAG ISO 46	130
Punto (199)	03.2012-	R134a	440	Dens Oil 8	PAO 68 or PAG ISO 46	130
Qubo	2008-	R134a	500	PAG	PAO 68 or PAG ISO 46	130
Scudo	1996-07	R134a	950-1000	SP10	PAO 68 or PAG ISO 46	135
Scudo 1,6D/2,0D	2007-	R134a	540	SP10	PAO 68 or PAG ISO 46	135
with air conditioning at the rear, short wheelbase	2007-	R134a	850	SP10	PAO 68 or PAG ISO 46	160
with air conditioning at the rear, long wheelbase	2007-	R134a	950	SP10	PAO 68 or PAG ISO 46	160
Sedici 1,6i	06.2006-	R134a	430	PAG	PAO 68 or PAG ISO 46	50
Sedici 1,9D	2006-	R134a	430	SP10	PAO 68 or PAG ISO 46	80
Seicento	1997-09	R134a	475-525	SP10	PAO 68 or PAG ISO 46	100
Stilo (192) 1,2i/1,4i	2001-08	R134a	475-525	PAG	PAO 68 or PAG ISO 46	80
Stilo 1,8i	2001-08	R134a	475-525	SP10	PAO 68 or PAG ISO 46	135
Stilo 1,6i/1,9JTD	2001-08	R134a	475-525	Dens Oil 8	PAO 68 or PAG ISO 46	80



Fiat

Strada Pick up 1,3D	2006-	R134a	625	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.
Tempra - Sanden compressor	1994-97	R134a	730	SP10	PAO 68 or PAG ISO 46	240
Harrison compressor V5	1994-97	R134a	730	UCON RL 488	PAO 68 or PAG ISO 150	263
Tipo - Sanden compressor	1994-95	R134a	730	SP10	PAO 68 or PAG ISO 46	240
Harrison compressor V5	1994-95	R134a	730	UCON RL 488	PAO 68 or PAG ISO 150	263
Ulysse	1994-02	R134a	950-1000	SP10	PAO 68 or PAG ISO 46	135
Ulysse (179AX)	2002-	R134a	575-625	SP10	PAO 68 or PAG ISO 46	135

Ford

B-Max 1,0 EcoBoost/1,6TDCi	2012-	R134a	600	WSH-M1C231-B	PAO 68 or PAG ISO 46	120
B-Max 1,5TDCi	2012-	R134a	550	WSH-M1C231-B	PAO 68 or PAG ISO 46	120
B-Max 1,4i/1,6Ti	2012-	R134a	650	WSH-M1C231-B	PAO 68 or PAG ISO 46	120
C-Max condenser pipe 1,2 mm (f)	2007-	R134a	600	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
C-Max condenser pipe 3 mm (f)	2007-	R134a	740	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
C-Max II/Grand C-Max 1,6TDCi	12.2010-	R134a	460	PAG	PAO 68 or PAG ISO 46	110
C-Max II/Grand C-Max 1,6SCTi/2,0TDCi/1,6Ti-VCT	12.2010-	R134a	530	PAG	PAO 68 or PAG ISO 46	150
Cougar	1998-03	R134a	725-755	YN-12 B	PAO 68 or PAG ISO 46	200
EcoSport	2013-	R134a	625	WSH-M1C231-B	PAO 68 or PAG ISO 46	120
Escort	1994-00	R134a	725-755	WSH-M1C231-B	PAO 68 or PAG ISO 46	160
Explorer (U2) 4,0iV6	03.95-1998	R134a	600	PAG	PAO 68	n.a.



Ford

Explorer (U2) 4,0iV6	1998-2002	R134a	650	PAG	PAO 68 or PAG ISO 46	265
Fiesta	1994-96	R134a	725-755	WSH-M1C231-B	PAO 68 or PAG ISO 46	100
Fiesta	1995-99	R134a	730-750	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Fiesta	1999-02	R134a	725-755	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Fiesta (JH) condenser pipe 3mm(f)	2002-08	R134a	635-665	WSH-M1C231-B	PAO 68 or PAG ISO 46	210
Fiesta (JH) condenser pipe 1,2 mm (f)	2004-08	R134a	460-480	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Fiesta (JH) 1,6D TDCi condenser pipe 3 mm (f)	2004-08	R134a	510-530	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Fiesta (JH) 1,6D TDCi condenser pipe 1,2 mm (f)	2004-08	R134a	460-480	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Fiesta VI 1,25i/ 1,4i/ 1,6Ti	2008-	R134a	390	WSH-M1C231-B	PAO 68 or PAG ISO 46	170
Fiesta VI 1,4TDCi	2008-	R134a	390	WSH-M1C231-B	PAO 68 or PAG ISO 46	120
Fiesta VI 1,6TDCi	2008-	R134a	475	WSH-M1C231-B	PAO 68 or PAG ISO 46	120
Focus	1998-04	R134a	725-755	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Focus II condenser pipe 3mm(f)	2004-11	R134a	740	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Focus II condenser pipe 1,2 mm (f)	2004-11	R134a	600	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Focus III 1,6Ti-VCT/1,6SCTi/2,0TDCi	2011-14	R134a	530	PAG	PAO 68 or PAG ISO 46	150
Focus III 1,6TDCi	2011-14	R134a	460	PAG	PAO 68 or PAG ISO 46	110
Focus IV 1,0i EcoBoost/1,5TDCi/1,6TDCi	2014-	R134a	530	WSH-M1C231-B	PAO 68 or PAG ISO 46	130
Focus IV 1,5i EcoBoost/2,0TDCi	2014-	R134a	625	WSH-M1C231-B	PAO 68 or PAG ISO 46	110
Focus IV 1,6Ti-VCT/2,0i + 2,3i Eco Boost/2,0 GDI	2014-	R134a	600	WSH-M1C231-B	PAO 68 or PAG ISO 46	150
Focus C-Max condenser pipe 3 mm(f)	2003-07	R134a	730-750	WSH-M1C231-B	PAO 68 or PAG ISO 46	200



Ford

Focus C-Max condenser pipe 1,2 mm(f)	2003-07	R134a	590-610	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Fusion (JU) condenser pipe 3mm(f)	2002-10	R134a	635-665	WSH-M1C231-B	PAO 68 or PAG ISO 46	210
Fusion (JU) condenser pipe 1,2 mm (f)	2002-10	R134a	460-480	WSH-M1C231-B	PAO 68 or PAG ISO 46	210
Galaxy 2,0/2,3	1995-00	R134a	950-1000	WSH-M1C231-B	PAO 68 or PAG ISO 46	205
with air conditioning at the rear	1995-00	R134a	1350-1400	WSH-M1C231-B	PAO 68 or PAG ISO 46	240
Galaxy 2,8/1,9 TDI	1995-00	R134a	950-1000	N052 154 VX00	PAO 68 or PAG ISO 46	135
with air conditioning at the rear	1995-00	R134a	1350-1400	N052 154 VX00	PAO 68 or PAG ISO 46	240
Galaxy Sanden compressor	06.00-06	R134a	700-750	PAG	PAO 68 or PAG ISO 46	135
Sanden compressor with air condition at the rear	06.00-06	R134a	1050-1100	PAG	PAO 68 or PAG ISO 46	240
Galaxy Visteon compressor	06.00-06	R134a	700-750	PAG	PAO 68 or PAG ISO 46	200
Visteon compressor with air condition at the rear	06.00-06	R134a	1050-1100	PAG	PAO 68 or PAG ISO 46	240
Galaxy	05.2006-	R134a	585-615	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
with air conditioning at the rear	05.2006-	R134a	835-865	WSH-M1C231-B	PAO 68 or PAG ISO 46	250
Ka/StreetKa	1996-05	R134a	635-665	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Ka (RB) 1,3i	2005-09	R134a	650	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Ka	2009-	R134a	500	ND8	PAO 68 or PAG ISO 46	95
Kuga	2008-	R134a	600	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Maverick	1993-98	R134a	740-760	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Maverick	2001-06	R134a	850	WSH-M1C231-B	PAO 68 or PAG ISO 46	265



Ford

Mondeo with condenser pipe 3 mm(f)(g)	12.01-07	R134a	800-840	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
with condenser pipe 1,2 mm(f)(g)	12.01-07	R134a	685-715	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Mondeo	03.2007-	R134a	520	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Mondeo I	1993-96	R134a	725-755	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Mondeo II	1996-00	R134a	725-755	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Mondeo III	11.00-12.01	R134a	800-840	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Mondeo V 1,0i EcoBoost	2014-	R134a	530	WSH-M1C231-B	PAO 68 or PAG ISO 46	145
Mondeo V 1,5i+1,6i+2,0i EcoBoost	2014-	R134a	570	WSH-M1C231-B	PAO 68 or PAG ISO 46	145
Mondeo V 2,5 Duratec	2014-	R134a	680	WSH-M1C231-B	PAO 68 or PAG ISO 46	145
Probe	1994-98	R134a	1000-1100	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Puma	1997-03	R134a	730-750	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Ranger	1999-03	R134a	550	PAG FD46XG	PAO 68 or PAG ISO 46	180
Ranger 2,5TDCi/ 3,0TDCi	2006-11.11	R134a	475	FD46XG	PAO 68 or PAG ISO 46	180
Ranger III	11.2011-	R134a	650	WSH-M1C231-B	PAO 68 or PAG ISO 46	150
S-Max	2006-13	R134a	585-615	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
with air conditioning at the rear	2006-13	R134a	835-865	WSH-M1C231-B	PAO 68 or PAG ISO 46	250
Granada/Scorpio	1994-12.94	R134a	n.a.	WSH-M1C231-B	PAO 68 or PAG ISO 46	160
Scorpio	1995-98	R134a	980-1020	WSH-M1C231-B	PAO 68 or PAG ISO 46	160
Tourneo Connect 1,8i/1,8D TDCi	2002-07	R134a	730-750	WSH-M1C231-B	PAO 68 or PAG ISO 46	200



Ford

Transit	1994-12.99	R134a	885-915	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
with air conditioning at the rear	1994-08.97	R134a	1375-1425	WSH-M1C231-B	PAO 68 or PAG ISO 46	250
with air conditioning at the rear	09.97-12.99	R134a	1175-1225	WSH-M1C231-B	PAO 68 or PAG ISO 46	250
Transit 2,0Di/2,4Di	01.00-05	R134a	720-760	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
with air conditioning at the rear	01.00-05	R134a	1530-1590	WSH-M1C231-B	PAO 68 or PAG ISO 46	250
Transit 2,3i/2,0TDCi	2001-05	R134a	970-1010	WSH-M1C231-B	PAO 68 or PAG ISO 46	280
Transit Connect / Tourneo Connect 1,0i EcoBoost	2013-	R134a	575	WSH-M1C231-B	PAO 68 or PAG ISO 46	120
Transit Connect / Tourneo Connect 1,6i EcoBoost	2013-	R134a	675	WSH-M1C231-B	PAO 68 or PAG ISO 46	130
with air conditioning at the rear	2013-	R134a	875	WSH-M1C231-B	PAO 68 or PAG ISO 46	220
Transit Connect / Tourneo Connect 2,5 Duratec	2013-	R134a	675	WSH-M1C231-B	PAO 68 or PAG ISO 46	130
with air conditioning at the rear	2013-	R134a	875	WSH-M1C231-B	PAO 68 or PAG ISO 46	220
Transit Connect / Tourneo Connect Bus 1,6TDCI	2013-	R134a	575	WSH-M1C231-B	PAO 68 or PAG ISO 46	150
with air conditioning at the rear	2013-	R134a	800	WSH-M1C231-B	PAO 68 or PAG ISO 46	n.a.
Transit Custom Van	12.2012-	R134a	740	WSH-M1C231-B	PAO 68 or PAG ISO 46	280
Transit Custom van with additional air conditioning	12.2012-	R134a	1150	WSH-M1C231-B	PAO 68 or PAG ISO 46	n.a.
Transit Custom Bus	12.2012-	R1234yf	770	WSH-M1C231-B	PAO 68 or PAG ISO 46	280
Transit Custom Bus with additional air conditioning	12.2012-	R1234yf	1080	WSH-M1C231-B	PAO 68 or PAG ISO 46	n.a.
Transit/Tourneo	07.2006-	R134a	730-770	WSH-M1C231-B	PAO 68 or PAG ISO 46	280
with air conditioning at the rear	07.2006-	R134a	1370-1430	WSH-M1C231-B	PAO 68 or PAG ISO 46	n.a.
Transit- / Tourneo Connect Van 1,6TDCI	2013-	R134a	525	WSH-M1C231-B	PAO 68 or PAG ISO 46	150



Honda

Accord - Denso compressor	1993-98	R134a	700-750	Dens Oil 8	PAO 68 or PAG ISO 46	160
Hadsys compressor	1993-98	R134a	700-750	S10X	PAO 68	160
Accord diesel RHD	1996-98	R134a	700	SP10	PAO 68 or PAG ISO 46	135
Accord diesel LHD	1996-98	R134a	650	SP10	PAO 68 or PAG ISO 46	135
Accord - Denso compressor	1998-03	R134a	500-550	Dens Oil 8	PAO 68 or PAG ISO 46	160
Sanden compressor	1998-03	R134a	500-550	SP10	PAO 68 or PAG ISO 46	130
ibiza II/Cordoba LHD	1994-97	R134a	600-650	Dens Oil 8	PAO 68 or PAG ISO 46	160
Hadsys compressor	1994-97	R134a	600-650	S10X	PAO 68	160
Accord Coupé	1998-03	R134a	600-650	Dens Oil 8	PAO 68 or PAG ISO 46	160-175
Accord 2,0i/2,4i	2003-08	R134a	500-600	SP10	PAO 68 or PAG ISO 46	130
Accord 2,0i/2,4i/2,2D-i-DTEC	07.2008-	R134a	475	SP10	PAO 68 or PAG ISO 46	185
Accord 2,2D i-CTDi	2003-08	R134a	450-500	Dens Oil 8	PAO 68 or PAG ISO 46	160
Civic - Denso compressor	1994-95	R134a	500-550	Dens Oil 8	PAO 68 or PAG ISO 46	120
Matsushita compressor	1994-95	R134a	500-550	GU10	PAO 68 or PAG ISO 46	140
Sanden compressor	1994-95	R134a	500-550	SP10	PAO 68 or PAG ISO 46	120
Civic 2/3/4-door - Denso compressor	1996-00	R134a	600-650	Dens Oil 8	PAO 68 or PAG ISO 46	140
Sanden compressor	1996-00	R134a	600-650	SP10	PAO 68 or PAG ISO 46	130
Civic 5-door	1995-97	R134a	500-550	SP10	PAO 68 or PAG ISO 46	120
Civic 5-door - Denso compressor	1997-00	R134a	500-550	Dens Oil 8	PAO 68 or PAG ISO 46	120
Sanden compressor	1997-00	R134a	500-550	SP10	PAO 68 or PAG ISO 46	130



Honda						
Civic 5-door diesel RHD	1997-00	R134a	560	SP10	PAO 68 or PAG ISO 46	135
Civic 5-door diesel LHD	1997-00	R134a	640	SP10	PAO 68 or PAG ISO 46	135
Civic/Civic Coupe (EU/EP/EM) 1,4i/1,6i/2,0i	2001-06	R134a	500-550	SP10	PAO 68 or PAG ISO 46	130-150
Civic 1,7D CTDi	2002-06	R134a	500-550	PAG	PAO 68 or PAG ISO 46	145
Civic VIII 1,4i/1,8i	2006-	R134a	450-480	SP10	PAO 68 or PAG ISO 46	80
Civic VIII 2,2D i-CTDi	2006-	R134a	450-480	SP10	PAO 68 or PAG ISO 46	85
Civic IX 1.4i-VTEC/1.8i-VTEC/2.2Di-DTEC LHD	2012-	R134a	380	ND8	PAO 68 or PAG ISO 46	n.a.
Civic IX 1.4i-VTEC/1.8i-VTEC/2.2Di-DTEC RHD	2012-	R134a	420	ND8	PAO 68 or PAG ISO 46	n.a.
Civic hybrid IMA LHD	2006-10	R134a	425	SE-10Y		n.a.
Civic hybrid IMA LHD	2006-10	R134a	475	SE-10Y		n.a.
Concerto	1993-95	R134a	750-800	SP10	PAO 68 or PAG ISO 46	120
CRX - Denso compressor	1994-97	R134a	500-550	Dens Oil 8	PAO 68 or PAG ISO 46	120
Matsushita compressor	1994-97	R134a	500-550	GU10	PAO 68 or PAG ISO 46	140
Sanden compressor	1994-97	R134a	500-550	SP10	PAO 68 or PAG ISO 46	120
CRV RHD	1997-02	R134a	600-650	SP10	PAO 68 or PAG ISO 46	130-150
CRV (RD)	2002-07	R134a	480-530	SP10	PAO 68 or PAG ISO 46	130-150
CRV 2,2D i-CTDi (RD)	2004-07	R134a	450-500	Dens Oil 8	PAO 68 or PAG ISO 46	160
CRV 2,0i/2,2D-CTDi/2,4i	2007-	R134a	465	SP10	PAO 68 or PAG ISO 46	185
CR-Z 1.5 hybrid IMA	2010-	R134a	475	SP10	PAO 68 or PAG ISO 46	165
FR-V Sanden compressor	2005-07	R134a	550	PAG	PAO 68 or PAG ISO 46	130



Honda							
FR-V Denso compressor	2005-07	R134a	550	PAG	PAO 68 or PAG ISO 46	100	
FR-V	2007-	R134a	550	SP10	PAO 68 or PAG ISO 46	170	
HR-V 1,6i	1999-06	R134a	550-650	SP10	PAO 68 or PAG ISO 46	130-150	
Insight 1.3i DSi-VTEC (IMA/hybrid) LHD	2006-	R134a	425	SE-10Y		140	
Insight 1.3i DSi-VTEC (IMA/hybrid) RHD	2006-	R134a	475	SE-10Y		140	
Jazz (GD)	2001-08	R134a	400-450	Dens Oil 8	PAO 68 or PAG ISO 46	85	
Jazz	2008-	R134a	400	PAG	PAO 68 or PAG ISO 46	85	
Legend - Denso compressor	1993-96	R134a	750-800	Dens Oil 8	PAO 68 or PAG ISO 46	180	
Hadsys compressor	1993-96	R134a	750-800	S10X	PAO 68	180	
Legend	1996-00	R134a	700-750	Dens Oil 8	PAO 68 or PAG ISO 46	140	
Legend IV (KB) 3,5i/3,7i	05.2006-	R134a	475	ND8	PAO 68 or PAG ISO 46	120	
Prelude RHD	1994-96	R134a	650-700	SP10	PAO 68 or PAG ISO 46	120	
Prelude LHD	1994-96	R134a	600-650	SP10	PAO 68 or PAG ISO 46	120	
Prelude	1997-01	R134a	700-750	SP10	PAO 68 or PAG ISO 46	130-150	
S2000	1999-04	R134a	600-650	SP10	PAO 68 or PAG ISO 46	130-150	
Shuttle 2,2i/2,3i	1995-01	R134a	600-650	Dens Oil 8	PAO 68 or PAG ISO 46	160	
with air conditioning at the rear	1995-01	R134a	800-850	Dens Oil 8	PAO 68 or PAG ISO 46	160	
Stream 1,7i	2001-06	R134a	500-550	SP10	PAO 68 or PAG ISO 46	130-150	
Stream 2,0i	2001-06	R134a	500-550	SP10	PAO 68 or PAG ISO 46	160-175	
with air conditioning at the rear	2001-06	R134a	700-750	SP10	PAO 68 or PAG ISO 46	160-175	



Hyundai						
Accent	1994-95	R134a	670-680	PAG FD46XG	PAO 68 or PAG ISO 46	140-160
Accent	1996-09.99	R134a	670-680	PAG FD46XG	PAO 68 or PAG ISO 46	170-190
Accent	10.99-02	R134a	575-625	PAG FD46XG	PAO 68 or PAG ISO 46	140-160
Accent (LC)	2002-2005	R134a	550	PAG FD46XG	PAO 68 or PAG ISO 46	180
Accent (MC)	11.2005-	R134a	500	PAG	PAO 68	n.a.
Atos/Atos	1998-04	R134a	625-675	PAG FD46XG	PAO 68 or PAG ISO 46	150
Azera 3,3i / 2,2D CRDi	2007-	R134a	500	PAG FD46XG	PAO 68 or PAG ISO 46	150
Coupé	05.96-04.02	R134a	675-725	PAG FD46XG	PAO 68 or PAG ISO 46	170-190
Coupé (GK)	2002-06	R134a	575-625	PAG	PAO 68	140-160
Elantra (XD) compressor: HS-15	06.00-06	R134a	655-705	PAG FD46XG	PAO 68 or PAG ISO 46	140-160
Elantra (XD) compressor: 10PA15	06.00-06	R134a	655-705	Dens Oil 8	PAO 68 or PAG ISO 46	120-135
Galloper	08.98-02	R134a	760-800	PAG FD46XG	PAO 68 or PAG ISO 46	170-190
with air conditioning at the rear	08.98-02	R134a	1150-1200	PAG FD46XG	PAO 68 or PAG ISO 46	170-190
Genesis Coupé 2.0i Turbo/3.8i	2010-	R134a	570	FD46XG	PAO 68 or PAG ISO 46	150
Getz	2002-08	R134a	475-525	Dens Oil 8	PAO 68 or PAG ISO 46	110-130
Grandeur 3,3i/3,8i/2,2D CRDi	2005-	R134a	480-520	PAG	PAO 68	140-160
H100	1993-02.00	R134a	625-675	PAG	PAO 68 or PAG ISO 46	170-190
with air conditioning at the rear	1993-02.00	R134a	1350-1450	PAG	PAO 68 or PAG ISO 46	170-190
H1/H200/Starex 2,4i/2,5D/2,6D compressor: FS10/Zexel	1997-08	R134a	625-675	PAG	PAO 68	200-220
with air conditioning at the rear	1997-08	R134a	1300	PAG	PAO 68	220-240



Hyundai						
H1/H200/Starex 2,4i/2,5D/2,6D compressor: MSC130CV/V6 CWV	1997-05	R134a	625-675	PAG	PAO 68	240-260
with air conditioning at the rear	1997-05	R134a	1300	PAG	PAO 68	260-280
H1 / H200 / Starex / Satellite 2,5D CRDi	2002-08	R134a	650	PAG FD46XG	PAO 68 or PAG ISO 46	150
with air conditioning at the rear	2002-08	R134a	950	PAG FD46XG	PAO 68 or PAG ISO 46	210
H1/H300/Starex/Satellite/Montana 2,5D CRDi	2008-	R134a	650	PAG FD46XG	PAO 68 or PAG ISO 46	150
with air conditioning at the rear	2008-	R134a	850	PAG FD46XG	PAO 68 or PAG ISO 46	210
i10	2008-13	R134a	450	PAG	PAO 68 or PAG ISO 46	120
i20	2009-	R134a	450	PAG FD46XG	PAO 68 or PAG ISO 46	120
i30	2008-12	R134a	500	PAG	PAO 68 or PAG ISO 46	150
i40 1,6GDi/2,0GDi/1,7CRDi	2011-	R134a	550	PAG	PAO 68 or PAG ISO 46	120
i800 / iLoad / iMax	2008-	R134a	650	FD46XG	PAO 68 or PAG ISO 46	150
with air conditioning at the rear	2008-	R134a	850	FD46XG	PAO 68 or PAG ISO 46	210
i800 / iLoad / iMax 2,5D CRDi	2008-	R134a	650	PAG FD46XG	PAO 68 or PAG ISO 46	150
with air conditioning at the rear	2008-	R134a	850	PAG FD46XG	PAO 68 or PAG ISO 46	210
ix35	2010-	R134a	510	FD46XG	PAO 68 or PAG ISO 46	120
ix20	2010-	R134a	550	PAG	PAO 68 or PAG ISO 46	100
ix55	2008-	R134a	700	FD46XG	PAO 68 or PAG ISO 46	150
with air conditioning at the rear	2008-	R134a	900	FD46XG	PAO 68 or PAG ISO 46	210
Lantra	1994-96	R134a	670-680	PAG FD46XG	PAO 68 or PAG ISO 46	140-160
Lantra	1996-00	R134a	675-725	PAG FD46XG	PAO 68 or PAG ISO 46	170-190



Hyundai

Matrix 1,6i/1,8i	2001-06	R134a	570	PAG	PAO 68	155
Pony	1994-	R134a	680-700	PAG FD46XG	PAO 68 or PAG ISO 46	207-230
S Coupé	1994-04.96	R134a	650-700	PAG FD46XG	PAO 68 or PAG ISO 46	140-160
Santa Fe	2001-06	R134a	575-625	PAG FD46XG	PAO 68 or PAG ISO 46	160
Santa Fe (CM)	03.2006-12	R134a	600	PAG FD46XG	PAO 68 or PAG ISO 46	150
with air conditioning at the rear	03.2006-12	R134a	850	PAG FD46XG	PAO 68 or PAG ISO 46	210
Sonata	1993-94	R134a	775-825	PAG FD46XG	PAO 68 or PAG ISO 46	207-230
Sonata	1995-97	R134a	700-750	PAG FD46XG	PAO 68 or PAG ISO 46	207-230
Sonata III (EF)	1998-01	R134a	675-725	PAG FD46XG	PAO 68 or PAG ISO 46	150
Sonata IV (new EF)	2001-05	R134a	660-700	PAG FD46XG	PAO 68 or PAG ISO 46	150
Sonata V (NF)	2005-	R134a	530-570	PAG FD46XG	PAO 68 or PAG ISO 46	150
Terracan 2,9 CRDI/3,5iV6	2001-08	R134a	825-875	PAG	PAO 68	170-190
Trajet	03.00-03	R134a	645-695	PAG	PAO 68 or PAG ISO 46	170-190
with air conditioning at the rear	03.00-03	R134a	825-875	PAG	PAO 68 or PAG ISO 46	170-190
Tuscon with petrol motor	2004-10	R134a	490-530	Dens Oil 8	PAO 68 or PAG ISO 46	120-135
Tuscon with diesel motor	2004-10	R134a	490-530	Dens Oil 8	PAO 68 or PAG ISO 46	200-215
Veloster 1,6GDi	2011-	R134a	420	PAG	PAO 68 or PAG ISO 46	120
XG	2000-03	R134a	650-690	PAG FD46XG	PAO 68 or PAG ISO 46	150



Infiniti

EX (J50) 3,7i	2007-	R134a	550	PAG DH-PS	PAO 68 or PAG ISO 46	150
FX (S51) 3,7i/5,0i	2008-	R134a	550	PAG DH-PS	PAO 68 or PAG ISO 46	150
G (V36) 3,7i	2007-	R134a	550	PAG DH-PS	PAO 68 or PAG ISO 46	150

Isuzu

Ascender	2003-05	R134a	1100	PAG	PAO 68	n.a.
Campo 3.1 D turbo	1993-03	R134a	650	ZXL100PG	PAO 68 or PAG ISO 46	150
Campo diesel	1993-03	R134a	750	PAG	PAO 68 or PAG ISO 46	260
Rodeo / D-Max 2,5D/3,0D	2003-12	R134a	650	ZXL200PG	PAO 68 or PAG ISO 10	180
Trooper	1994-98	R134a	750	PAG	PAO 68 or PAG ISO 10	270
Trooper diesel	1994-98	R134a	750	PAG	PAO 68 or PAG ISO 46	270
Trooper	1998-03	R134a	750	ZXL 200 PG	PAO 68 or PAG ISO 10	150
Trooper diesel	1998-03	R134a	750	ZXL 100 PG	PAO 68 or PAG ISO 46	150

Jaguar (Daimler)

Daimler Double Six 6,0i	1994-97	R134a	1050-1150	Dens Oil 8	PAO 68 or PAG ISO 46	180-200
Daimler 4,0V8	1997-04	R134a	650-700	PAG	PAO 68	160-200
S-Type <- VIN M45255	1999-02	R134a	775-825	WSH-M1C231-B	PAO 68 or PAG ISO 46	210
S-Type -> VIN M45255	2002-08	R134a	725-775	PAG	PAO 68 or PAG ISO 46	210
S-Type 2,7D	2004-08	R134a	650-750	WSH-M1C231-B	PAO 68 or PAG ISO 46	210



Jaguar (Daimler)

X-Type (CF1) 2,0i/2,5i/3,0i	2001-10	R134a	795-825	PAG	PAO 68 or PAG ISO 46	220
X-Type 2,0D/2,2D	2003-10	R134a	720-750	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
XF 3,0i	2008-	R134a	700	JLM12260	PAO 68 or PAG ISO 46	130
XF 5,0i/3,0D	2009-	R134a	750	JLM12260	PAO 68 or PAG ISO 46	110
XF 2,2D	2011-	R134a	700	JLM12260	PAO 68 or PAG ISO 46	110
XFR 5,0i	2009-	R134a	750	JLM12260	PAO 68 or PAG ISO 46	110
XJ (X351)	2010-	R134a	700	JLM12260	PAO 68 or PAG ISO 46	110
XJ6 3,0i / 2,7D TDVi	2003-10	R134a	650	JLM12260	PAO 68 or PAG ISO 46	140
with air conditioning at the rear	2003-10	R134a	800	JLM12260	PAO 68 or PAG ISO 46	180
XJ6/Sovereign	1993-94	R134a	1127-1173	SP20	PAO 68 or PAG ISO 10	120-150
XJ6/XJR	1994-97	R134a	1050-1150	Dens Oil 8	PAO 68 or PAG ISO 46	180-200
XJ8 3,2i/4,0i	1997-03	R134a	650-700	PAG	PAO 68 or PAG ISO 46	165-195
XJ8 3,5i / 4,2i / 4,2i Super V8	2003-10	R134a	650	JLM12260	PAO 68 or PAG ISO 46	140
with air conditioning at the rear	2003-10	R134a	800	JLM12260	PAO 68 or PAG ISO 46	180
XJ12/Double Six	1993-94	R134a	1127-1173	SP20	PAO 68 or PAG ISO 10	120-150
XJ12/Double Six	1994-97	R134a	1050-1150	Dens Oil 8	PAO 68 or PAG ISO 46	180-200
XJR 4,0i	1998-03	R134a	650-700	PAG	PAO 68 or PAG ISO 46	160-200
XJR 4,2i	2003-10	R134a	630-650	Dens Oil 8	PAO 68 or PAG ISO 46	140
with air conditioning at the rear	2003-10	R134a	780-820	Dens Oil 8	PAO 68 or PAG ISO 46	180
XJS	09.93-97	R134a	900-950	SP20	PAO 68 or PAG ISO 10	120-150



Jaguar (Daimler)

XK8	10.96-03	R134a	600-700	PAG	PAO 68 or PAG ISO 46	160-200
XK8 4,2i	2006-	R134a	700	JLM12260	PAO 68 or PAG ISO 46	130
XK8 5,0i	2009-	R134a	700	JLM12260	PAO 68 or PAG ISO 46	110
XKR 4,0i/4,2i	2002-06	R134a	650-700	PAG	PAO 68 or PAG ISO 46	160-200
XKR 4,2i	2006-	R134a	700	PAG	PAO 68 or PAG ISO 46	130
XKR 5,0i/5,0iS	2009-	R134a	700	JLM12260	PAO 68 or PAG ISO 46	110

Kia

Carens	99-07.02	R134a	800	PAG	PAO 68 or PAG ISO 46	120
Carens II	07.02-06	R134a	660-700	ND-Oil 8	PAO 68 or PAG ISO 46	200
Carnival	2000-06	R134a	1150	PAG	PAO 68 or PAG ISO 46	200
Carnival 2,5i GV6	2001-06	R134a	1000	ND 8	PAO 68 or PAG ISO 46	200
Carnival	2006-	R134a	775-825	ND 8	PAO 68 or PAG ISO 46	110-130
Ceed / Pro-Ceed	12.2006-12	R134a	500	FD46XG	PAO 68 or PAG ISO 46	140
Cerato with petrol motor	2004-08	R134a	475-525	ND-Oil 8	PAO 68 or PAG ISO 46	120-135
Cerato with diesel motor	2004-08	R134a	475-525	ND-Oil 8	PAO 68 or PAG ISO 46	200-215
Clarus/Credos 1,8	1996-03	R134a	700	PAG	PAO 68 or PAG ISO 46	150
Clarus/Credos 2,0	1996-03	R134a	700	PAG	PAO 68 or PAG ISO 10	200
Joice	2000-06	R134a	730	FD46XG	PAO 68 or PAG ISO 46	210
Magentis	2001-05	R134a	645-695	PAG	PAO 68	150



Kia

Magentis drive belt 6PK	11.05-07	R134a	475-525	ND 8	PAO 68 or PAG ISO 46	140-160
Magentis (MG)	11.2005-	R134a	500	PAG	PAO 68 or PAG ISO 46	150
Opirus	2003-07	R134a	625-675	FD46XG	PAO 68 or PAG ISO 46	140-160
Picanto	2004-11	R134a	425-475	FD46XG	PAO 68 or PAG ISO 46	110-130
Picanto (TA)	05.2011-	R134a	370	PAG	PAO 68 or PAG ISO 46	110
Pregio	10.97-05	R134a	830	PAG	PAO 68 or PAG ISO 46	200
Rio compressor 10 PA15C	2000-05	R134a	650	PAG	PAO 68 or PAG ISO 46	135
Rio II	2005-	R134a	475-525	ND-Oil 8	PAO 68 or PAG ISO 46	110-130
Rio III (UB)	09.2011-	R134a	420	PAG	PAO 68 or PAG ISO 46	120
Sedona	2000-03	R134a	1150	PAG	PAO 68 or PAG ISO 46	200
Sephia/Mentor	1996-00	R134a	700	PAG	PAO 68 or PAG ISO 46	140
Shuma	1998-04	R134a	700	PAG	PAO 68 or PAG ISO 46	140
Sportage	1995-03	R134a	700	ZXL 200 PG	PAO 68 or PAG ISO 10	200
Sportage drive belt 6PK	2004-10	R134a	485-535	ND 8	PAO 68 or PAG ISO 46	200-215
Sportage drive belt 4PK	2004-10	R134a	485-535	ND 8	PAO 68 or PAG ISO 46	120-135
Sportage (SL)	07.2010-12	R134a	510	PAG	PAO 68 or PAG ISO 46	120
Sorento	2002-07	R134a	575-625	Dens Oil 8	PAO 68 or PAG ISO 46	200
Sorento 3,3i/ 2,5CRDi	2007-	R134a	540	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.
Sorento (XM)	11.2009-13	R134a	600	PAG	PAO 68 or PAG ISO 46	120
with air conditioning at the rear	11.2009-13	R134a	750	PAG	PAO 68 or PAG ISO 46	180



Kia

Soul	2009-	R134a	500	PAG	PAO 68 or PAG ISO 46	105
Venga	2009-15	R134a	550	PAG	PAO 68 or PAG ISO 46	110

Lancia

Dedra - Sankyo compressor	1993-95	R134a	850-950	SP20	PAO 68 or PAG ISO 10	135
Harrison compressor	1993-95	R134a	850-950	SP20	PAO 68 or PAG ISO 10	236
Dedra - Sankyo compressor	1996-99	R134a	730	Dens Oil 9	PAO 68 or PAG ISO 10	140-180
Harrison compressor	1996-99	R134a	730	UCON RL 488	PAO 68 or PAG ISO 150	236
Sanden compressor	1996-99	R134a	730	SP10	PAO 68 or PAG ISO 46	240
Denso compressor	1996-99	R134a	730	Dens Oil 9	PAO 68 or PAG ISO 10	140-180
Dedra 2,0ie 16 V all-wheel drive	1995-99	R134a	850-950	SP20	PAO 68 or PAG ISO 10	135
Dedra Turbo D	1994-99	R134a	730	UCON RL 488	PAO 68 or PAG ISO 150	236
Delta - Sankyo compressor	1994-99	R134a	800	SP20	PAO 68 or PAG ISO 10	135
Harrison compressor	1994-99	R134a	800	UCON RL 488	PAO 68 or PAG ISO 150	236
Delta	2008-	R134a	500	ND8	PAO 68 or PAG ISO 46	130
Delta 1,6 16 V	1996-99	R134a	730	Dens Oil 9H-5	PAO 68 or PAG ISO 10	130-170
Delta 1,8 16 V	1996-99	R134a	730	Dens Oil 9H-5	PAO 68 or PAG ISO 10	140-180
Delta Turbo D	1994-99	R134a	730	UCON RL 488	PAO 68 or PAG ISO 150	236
Kappa - Sanden compressor	1994-00	R134a	730	SP10	PAO 68 or PAG ISO 46	135
Denso compressor	1994-00	R134a	800	Dens Oil 8	PAO 68 or PAG ISO 46	140-170



Lancia						
Kappa 2.0i/2.4i/3.0i with Sanden compressor	1994-2002	R134a	730	SP10	PAO 68 or PAG ISO 46	135
Kappa 2.0i/2.4i/3.0i with Denso compressor	1994-2002	R134a	800	ND8	PAO 68 or PAG ISO 46	155
Lybra 1,6i	1999-06	R134a	675-725	UCON RL 488	PAO 68 or PAG ISO 150	265
Lybra 1,8i/2,0i/1,9JTD	2001-07	R134a	675-725	SP20	PAO 68 or PAG ISO 10	145
Lybra 2,4JTD	1999-06	R134a	675-725	Dens Oil 8	PAO 68 or PAG ISO 46	120
Musa 1,4i/1,4i16V/1,3D JTD/1,9D JTD/1,6D	2004-12	R134a	500	SP10	PAO 68 or PAG ISO 46	130
Phedra	2002-11	R134a	575-625	SP10	PAO 68 or PAG ISO 46	135
Thema	1992-94	R134a	1100	Sanden E13 M6	PAO 68 or PAG ISO 10	135
Thesis	2002-09	R134a	650	SP10	PAO 68 or PAG ISO 46	140
Thesis 3,0i/3,2i	2002-09	R134a	730	SP10	PAO 68 or PAG ISO 46	140
Ypsilon 1,1	1996-03	R134a	625-675	Dens Oil 8	PAO 68 or PAG ISO 46	60-100
Ypsilon 1,2/1,4	1996-03	R134a	650-700	Dens Oil 9	PAO 68 or PAG ISO 10	140-180
Ypsilon 1,2i/1,2i16V/1,4i/1,3D JTD	2003-11	R134a	500	Dens Oil 8	PAO 68 or PAG ISO 46	130
Zeta	1996-02	R134a	950-1000	SP10	PAO 68 or PAG ISO 46	135

Landrover						
Defender	06.94-98	R134a	1090	Dens Oil 8	PAO 68 or PAG ISO 46	313
Defender TD5 motorcode:10P	1999-07	R134a	700-800	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.
Defender TD5 motorcode:15P	2001-07	R134a	700-800	Dens Oil 8	PAO 68 or PAG ISO 46	180
Defender 2,4TD4	2006-	R134a	600	SP10	PAO 68 or PAG ISO 46	130



Landrover						
Discovery	09.94-98	R134a	900	Dens Oil 8	PAO 68 or PAG ISO 46	180
with air conditioning at the rear	09.94-98	R134a	1150	Dens Oil 8	PAO 68 or PAG ISO 46	180
Discovery	1998-04	R134a	675-725	Dens Oil 8	PAO 68 or PAG ISO 46	180
with air conditioning at the rear	1998-04	R134a	875-925	Dens Oil 8	PAO 68 or PAG ISO 46	180
Discovery III 2,7TD	10.04-09	R134a	550	Dens Oil 8	PAO 68 or PAG ISO 46	130
with air conditioning at the rear	10.04-09	R134a	810	Dens Oil 8	PAO 68 or PAG ISO 46	180
Discovery III 4,4i / 4,0i	10.04-09	R134a	600	Dens Oil 8	PAO 68 or PAG ISO 46	130
with air conditioning at the rear	10.04-09	R134a	900	Dens Oil 8	PAO 68 or PAG ISO 46	180
Discovery IV (LA) 2,7TDV6	09.2009-	R134a	550	Dens Oil 8	PAO 68 or PAG ISO 46	135
with air conditioning at the rear	09.2009-	R134a	810	Dens Oil 8	PAO 68 or PAG ISO 46	175
Discovery IV (LA) 4,0i	09.2009-	R134a	600	Dens Oil 8	PAO 68 or PAG ISO 46	135
with air conditioning at the rear	09.2009-	R134a	900	Dens Oil 8	PAO 68 or PAG ISO 46	175
Discovery IV (LA) 3,0TDV6/5,0i	09.2009-	R134a	625	Dens Oil 8	PAO 68 or PAG ISO 46	115
with air conditioning at the rear	09.2009-	R134a	900	Dens Oil 8	PAO 68 or PAG ISO 46	175
Freelander	1997-00	R134a	700-750	Dens Oil 8	PAO 68 or PAG ISO 46	130-170
Freelander	2000-06	R134a	515-565	PAG	PAO 68 or PAG ISO 46	n.a.
Freelander LHD motor: 2,5i	2000-06	R134a	410-450	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.
Freelander II 2,2DTD4	2006-	R134a	730	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Freelander II 3,2i	2006-	R134a	730	WSH-M1C231-B	PAO 68 or PAG ISO 46	150
Range Rover/Classic	09.94-95	R134a	900	Dens Oil 8	PAO 68 or PAG ISO 46	180









Landrover						
Range Rover II petrol	1994-99	R134a	1250	SP10	PAO 68 or PAG ISO 46	150
Range Rover II petrol	1999-02	R134a	1355-1405	Dens Oil 8	PAO 68 or PAG ISO 46	180
Range Rover II diesel	1994-02	R134a	1100	Dens Oil 8	PAO 68 or PAG ISO 46	140
Range Rover III (LM) 4,4i (448S2)/3,0TD	2002-06	R134a	500-520	Dens Oil 8	PAO 68 or PAG ISO 46	110
Range Rover III 4,4i (448PN)/4,2i Supercharged	2005-09	R134a	700	Dens Oil 8	PAO 68 or PAG ISO 46	120
Range Rover Evoque	2011-	R134a	650	PAG	PAO 68 or PAG ISO 46	150
Range Rover Sport 4,4i (448PN)/4,2i Supercharged	2005-09	R134a	600	Dens Oil 8	PAO 68 or PAG ISO 46	130
Range Rover Sport 2,7D TDV6	2005-09	R134a	600	Dens Oil 8	PAO 68 or PAG ISO 46	130
Range Rover Sport 3,0D TDV6	2009-13	R134a	600	Dens Oil 8	PAO 68 or PAG ISO 46	110
Range Rover Sport 3,6D TDV8	2006-13	R134a	650	Dens Oil 8	PAO 68 or PAG ISO 46	130
Range Rover Sport 5,0i/5,0i Supercharged	2009-13	R134a	700	Dens Oil 8	PAO 68 or PAG ISO 46	110
LDV						
Maxus 2,5D CRD LHD	2005-09	R134a	850	PAG	PAO 68 or PAG ISO 150	265
Maxus 2,5D CRD RHD	2005-09	R134a	880	PAG	PAO 68 or PAG ISO 150	265
Lexus						
CT 200h	2010-	R134a	470	Dens Oil 11	POE	n.a.
GS300	1994-97	R134a	800-900	Dens Oil 8	PAO 68 or PAG ISO 46	150
GS300	1997-05	R134a	550-650	Dens Oil 8	PAO 68 or PAG ISO 46	150



Lexus

GS300 (GRS/URZ)	04.2005-	R134a	450	Dens Oil 8	PAO 68 or PAG ISO 46	135
GS430	2000-05	R134a	550-650	PAG	PAO 68	n.a.
GS430	2005-08	R134a	450	Dens Oil 8	PAO 68 or PAG ISO 46	130
GS450h	2006-	R134a	450	Dens Oil 11	POE	120
GS460	2008-	R134a	550	Dens Oil 8	PAO 68 or PAG ISO 46	130
IS200	1999-05	R134a	550-650	Dens Oil 8	PAO 68 or PAG ISO 46	150
IS 300	2001-05	R134a	550-650	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.
IS 250/220d/5,0F	2005-	R134a	440	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.
LS400	1993-09.00	R134a	650-750	Dens Oil 8	PAO 68 or PAG ISO 46	150
with air conditioning at the rear	1993-09.00	R134a	900-1000	Dens Oil 8	PAO 68 or PAG ISO 46	180
LS430	2001-07	R134a	600-700	Dens Oil 8	PAO 68 or PAG ISO 46	130
with air conditioning at the rear	2001-07	R134a	850-950	Dens Oil 8	PAO 68 or PAG ISO 46	150
LS 460	2006-	R134a	600	Dens Oil 8	PAO 68 or PAG ISO 46	130
with air conditioning at the rear	2006-	R134a	750	Dens Oil 8	PAO 68 or PAG ISO 46	150
LS 600h	2007-10.2009	R134a	900	ND Oil 11	POE	130
LS 600h	11.2009-	R134a	840	ND Oil 11	POE	130
RX 300	2000-03	R134a	600-700	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.
RX 300	2003-07	R134a	550-650	Dens Oil 8	PAO 68 or PAG ISO 46	120
RX 350	2006-09	R134a	600	Dens Oil8	PAO 68 or PAG ISO 46	120
RX 350	2009-	R134a	500	Dens Oil8	PAO 68 or PAG ISO 46	110

						 ml
Lexus						
RX 400h	2005-10	R134a	550-650	ND Oil 11	POE	120
RX 450h	2009-	R134a	600	Dens Oil 11	POE	120
SC 430	2001-06	R134a	650-750	Dens Oil 8	PAO 68 or PAG ISO 46	125-135
Maybach						
Maybach (240) 57/63 airconditioning at the front	2002-06	R134a	950			
air conditioning at the rear		R134a	950			
compressor 7SEU17C				PAG	PAO 68	170
compressor 6SEU14C				PAG	PAO 68	120
Mazda						
2 condenser pipe 1,2 mm (f)	2003-07	R134a	470	PAG	PAO 68 or PAG ISO 46	210
2 condenser pipe 3mm(f)	2003-07	R134a	650	PAG	PAO 68 or PAG ISO 46	210
2	10.2007-14	R134a	500	PAG	PAO 68 or PAG ISO 46	115
3 1,4i/1,6i/2,0i	2003-09	R134a	500	Atmos GU10	PAO 68 or PAG ISO 46	125
3 1,6D	2003-09	R134a	650	PAG SP10	PAO 68 or PAG ISO 46	200
3 2,0D/ 2,3MPS	2007-09	R134a	500	Atmos GU10	PAO 68 or PAG ISO 46	155
3 (BL)	06.2009-13	R134a	475	PAG	PAO 68 or PAG ISO 46	130
3 (BM)	09.2013-	R134a	500	PAG 46	PAO 68 or PAG ISO 46	100
3 (BM)	09.2013-	R1234yf	490	n.a.	PAO 68 AA1 or PAG YF	100



Mazda

5 1,8i/2,0i/2,0D CRD	2005-10	R134a	500	Atmos GU10	PAO 68 or PAG ISO 46	150
5 (CW)	09.2010-	R134a	480	PAG	PAO 68 or PAG ISO 46	120
6 LHD 1,8i/2,0i/2,3i	2002-07	R134a	470	GU10	PAO 68 or PAG ISO 46	120
6 RHD 1,8i/2,0i/2,3i	2002-07	R134a	430	GU10	PAO 68 or PAG ISO 46	120
6 LHD 2,0D Turbo	2002-07	R134a	470	Atmos GU10	PAO 68 or PAG ISO 46	150
6 RHD 2,0D Turbo	2002-07	R134a	430	Atmos GU10	PAO 68 or PAG ISO 46	150
6 1,8i/ 2,0i/ 2,5i	2007-12.12	R134a	500	PAG	PAO 68 or PAG ISO 46	120
6 2,0D/2,2D	2007-12.12	R134a	525	Atmos GU 10	PAO 68 or PAG ISO 46	120
6 (GJ/GH)	01.2013-	R134a	500	PAG 46	PAO 68 or PAG ISO 46	100
6 (GJ/GH)	01.2013-	R1234yf	490	n.a.	PAO 68 AA1 or PAG YF	100
121	1993-12.94	R134a	650	GU10	PAO 68 or PAG ISO 46	175
121	1995-03	R134a	730-750	PAG	PAO 68 or PAG ISO 46	200
323	94-10.96	R134a	750	GU10	PAO 68 or PAG ISO 46	175
323	11.96-08.98	R134a	700-750	GU10	PAO 68 or PAG ISO 46	150
323 RHD	09.98-03	R134a	625	GU10	PAO 68 or PAG ISO 46	150
323 LHD	09.98-03	R134a	600	GU10	PAO 68 or PAG ISO 46	150
626	92-05.94	R134a	750-800	ATMOS 150	PAO 68	150
626	06.94-97	R134a	700	GU10	PAO 68 or PAG ISO 46	175
626	1997-03	R134a	625-700	GU10	PAO 68 or PAG ISO 46	150
B-series 2,5D/2,5TD	1998-02	R134a	550	PAG	PAO 68 or PAG ISO 46	180



Mazda

BT-50 2,5D/3,0D	2006-	R134a	475	FD46XG	PAO 68 or PAG ISO 46	180
CX 5 2,0i	2012-	R1234yf	500	FD46XG	PAG ISO 46	100
CX 5 2,2D	2012-	R1234yf	470	FD46XG	PAG ISO 46	100
CX 7 2,3i/2,2D	2007-	R134a	490	Atmos GU10	PAO 68 or PAG ISO 46	150
CX 9 3,7i	2007-	R134a	690	PAG	PAO 68 or PAG ISO 46	160
Demio LHD	1998-04	R134a	650	GU10	PAO 68 or PAG ISO 46	150
Demio RHD	1998-04	R134a	600	GU10	PAO 68 or PAG ISO 46	150
E-series	1995-00	R134a	550	ZXL 100 PG	PAO 68 or PAG ISO 46	150
with air conditioning at the rear	1995-00	R134a	1150	ZXL 100 PG	PAO 68 or PAG ISO 46	200
MX3	1991-94	R134a	800	ATMOS 150	PAO 68	150
MX3	1995-99	R134a	750	GU10	PAO 68 or PAG ISO 46	175
MX5 (NB) up to chasis no. 200000	1998-05	R134a	700	PAG	PAO 68	n.a.
MX5 (NB) from chasis no. 200001	1998-05	R134a	425	PAG	PAO 68	n.a.
MX5 (NC)	2005-	R134a	450	PAG	PAO 68 or PAG ISO 10	130
MX6	92-05.94	R134a	750-800	ATMOS 150	PAO 68	150
MX6	06.94-98	R134a	700	GU10	PAO 68 or PAG ISO 46	175
MPV3,0i	1994-99	R134a	1050	Dens Oil 8	PAO 68 or PAG ISO 46	200
with air conditioning at the rear	1994-99	R134a	1200	Dens Oil 8	PAO 68 or PAG ISO 46	215
MPV II	09.99-05	R134a	650	Dens Oil 8	PAO 68 or PAG ISO 46	160
with air conditioning at the rear	09.99-05	R134a	850	Dens Oil 8	PAO 68 or PAG ISO 46	160



Mazda							
Premacy	1999-05	R134a	650	GU10	PAO 68 or PAG ISO 46	150	
RX 8	2003-12	R134a	430	PAG	PAO 68 or PAG ISO 46	60	
Tribute 2,0i/3,0i	2000-07	R134a	900	PAG	PAO 68 or PAG ISO 46	260	
Xedos 6	92-03.94	R134a	700	GU10	PAO 68 or PAG ISO 46	130-140	
Xedos 6	04.94-03	R134a	700	GU10	PAO 68 or PAG ISO 46	175	
Xedos 9	1994-03	R134a	700-800	GU10	PAO 68 or PAG ISO 46	175	

Mercedes-Benz							
A-Class (W168)	1998-05	R134a	600	A001 989 0803	PAO 68 or PAG ISO 46	100	
A-Class (W169) 150/170/200/160CDI/180CDI	09.04-11	R134a	770	A001 989 0803	PAO 68 or PAG ISO 46	120	
A-Class (W169) 200CDI/200turbo	09.04-11	R134a	840	A001 989 0803	PAO 68 or PAG ISO 46	120	
A-Class (176)	06.2012-	R134a	650	PAG	PAO 68 or PAG ISO 46	120	
B-Class (W245) 150/200/180CDI/170	2005-11	R134a	770	A001 989 0803	PAO 68 or PAG ISO 46	120	
B-Class (W245) 200 turbo/200CDI	2005-11	R134a	840	A001 989 0803	PAO 68 or PAG ISO 46	120	
B-Class (246)	11.2011-	R134a	650	PAG	PAO 68 or PAG ISO 46	120	
C-Class (W202) <- VIN 1A 168 524, 1F 164 269	1993-00	R134a	950	A001 989 0803	PAO 68 or PAG ISO 46	155	
C-Class (W202) -> VIN 1A 168 525, 1F 164 270 R	1993-00	R134a	850	A001 989 0803	PAO 68 or PAG ISO 46	155	
C-Class (W 203)	05.00-04.04	R134a	700-750	PAG	PAO 68 or PAG ISO 46	120	
C-Class (W203) Facelift	04.04-07	R134a	850	A001 9890 803	PAO 68 or PAG ISO 46	120	
C-Class (204)	2007-09.14	R134a	590	PAG	PAO 68 or PAG ISO 46	120	










Mercedes-Benz

C-Class (205)	09.2014-	R134a	620	PAG	PAO 68 or PAG ISO 46	80
with code ME 04 (mild hybrid)		R134a	710	n.a.	PAO 68 AA1	120
with code ME 06 (hybrid 50 KW)		R134a	670	n.a.	PAO 68 AA1	120
CL (216)	2010-	R134a	1070	PAG	PAO 68 or PAG ISO 46	110
CLC (203)	2008-	R134a	850	A001 989 0803	PAO 68 or PAG ISO 46	135
CLK (C208)	1997-02	R134a	850	A001 989 0803	PAO 68 or PAG ISO 46	120
CLK (C209)	06.02-09	R134a	750	PAG	PAO 68 or PAG ISO 46	120
CLS (C219)	2005-	R134a	950	A001 989 0803	PAO 68 or PAG ISO 46	120
CLS (218)	2011-	R134a	590	A001 989 0803	PAO 68 or PAG ISO 46	120
E-Class (W124)	1993-96	R134a	950	A001 989 0803	PAO 68 or PAG ISO 46	160
with air conditioning at the rear	1993-96	R134a	1150	A001 989 0803	PAO 68 or PAG ISO 46	160
E-Class (W210)	1995-02	R134a	1000	A001 989 0803	PAO 68 or PAG ISO 46	120
E-Class (W211)	03.02-09	R134a	950	PAG	PAO 68 or PAG ISO 46	120
E-Class (W212)	2009-	R134a	590	A001 989 0803	PAO 68 or PAG ISO 46	120
E-Class (W212) 6.3 E63 AMG	2009-	R134a	640	A001 989 0803	PAO 68 or PAG ISO 46	120
E-Class (207) Coupé/Cabrio	2009-	R134a	590	A001 989 0803	PAO 68 or PAG ISO 46	120
G-Class (W461)	1993-2005	R134a	1100	A001 989 0803	PAO 68 or PAG ISO 46	170
with compressor 7SB16	1993-2005	R134a	1100	A001 989 0803	PAO 68 or PAG ISO 46	120
G-Class (W463)	1993-2005	R134a	1050	A001 989 0803	PAO 68 or PAG ISO 46	120
G-Class (463.322/323) 270CDI	2001-05	R134a	1070	A001 989 0803	PAO 68 or PAG ISO 46	170



Mercedes-Benz

GL-Class (X164)	2006-	R134a	970	A001 9890 803	PAO 68 or PAG ISO 46	110
with air conditioning at the rear	2006-	R134a	1220	A001 9890 803	PAO 68 or PAG ISO 46	110
GLA (156)	12.2013-	R134a	660	PAG	PAO 68 or PAG ISO 46	110
GLK (X204) with compressor: Denso 6SEU16	2008-	R134a	590	PAG	PAO 68 or PAG ISO 46	120
M-Class (W163)	03.98-05	R134a	750	PAG	PAO 68 or PAG ISO 46	175
M-Class (W164)	07.05-	R134a	970	PAG	PAO 68 or PAG ISO 46	110
M-Class (W164) with air condition at the rear	2006-	R134a	1220	A001 9890 803	PAO 68 or PAG ISO 46	110
M-Class (166)	06.2011-	R134a	1050	PAG	PAO 68 or PAG ISO 46	120
M-Class (166) with air conditioning at the rear	06.2011-	R134a	1300	PAG	PAO 68 or PAG ISO 46	160
R-Class (W251/V251)	2006-	R134a	970	A001 989 0803	PAO 68 or PAG ISO 46	110
with air conditioning at the rear	2006-	R134a	1220	A001 989 0803	PAO 68 or PAG ISO 46	110
S-Class (W140) <- VIN 1A 128 373	07.91-99	R134a	1200	A001 989 0803	PAO 68 or PAG ISO 46	160
with air condition at the rear <- VIN 1A 128 373	07.91-99	R134a	1400	A001 989 0803	PAO 68 or PAG ISO 46	160
S-Class (W140) -> VIN 1A 128 374 R	07.91-99	R134a	1150	A001 989 0803	PAO 68 or PAG ISO 46	160
with air condition at the rear ->VIN 1A 128 374 R	07.91-99	R134a	1250	A001 989 0803	PAO 68 or PAG ISO 46	160
S-Class (W220)	10.98-06	R134a	950	PAG	PAO 68	120
with air conditioning at the rear	10.98-06	R134a	1050	PAG	PAO 68	120
S-Class Coupé (C215) CL500/600	2002-07	R134a	950	A001 9890 803	PAO 68 or PAG ISO 46	120
S-Class (W221)	2006-13	R134a	1070	A001 989 0803	PAO 68 or PAG ISO 46	110
with air conditioning at the rear	2006-13	R134a	1180	A001 989 0803	PAO 68 or PAG ISO 46	120

						
Mercedes-Benz						
S-Class (222)	2013-	R134a	660	PAG	PAO 68 or PAG ISO 46	120
with air conditioning at the rear		R134a	770	PAG	PAO 68 or PAG ISO 46	130
S-Class (222) Hybrid 20KW	2013-	R134a	770	n.a.	PAO 68 AA1	120
with air conditioning at the rear		R134a	870	n.a.	PAO 68 AA1	130
S-Class (222) Hybrid 85KW	2013-	R134a	710	n.a.	PAO 68 AA1	120
with air conditioning at the rear		R134a	820	n.a.	PAO 68 AA1	130
SLK (R170)	1996-04	R134a	850	A001 989 0803	PAO 68 or PAG ISO 46	120
SLK (R171)	2004-11	R134a	670	A001 9890 803	PAO 68 or PAG ISO 46	120
SLK (172)	2011-	R134a	550	PAG	PAO 68 or PAG ISO 46	120
SL (R129)	1991-02	R134a	950	A001 989 0803	PAO 68 or PAG ISO 46	140-150
SL (R230)	10.01-11	R134a	920	PAG	PAO 68 or PAG ISO 46	120
SL (231)	01.2012-	R134a	550	PAG	PAO 68 or PAG ISO 46	120
Sprinter	01.95-05	R134a	860	PAG	PAO 68 or PAG ISO 46	120
with air condition at the rear (HH7)	01.95-05	R134a	1300	PAG	PAO 68 or PAG ISO 46	175
Sprinter (906)	2006-	R134a	800	PAG	PAO 68 or PAG ISO 46	190
with air condition at the rear (HH7)	2006-	R134a	1190	PAG	PAO 68 or PAG ISO 46	190
Sprinter (906) with high-performance air conditioning (H08)	2006-	R134a	1000	PAG	PAO 68 or PAG ISO 46	160
Vaneo (414)	2002-06	R134a	600	PAG	PAO 68 or PAG ISO 46	100



Mercedes-Benz

Vito (638) / V-Class (638/2) compressor: Denso 7SB16	02.96-03	R134a	850	PAG	PAO 68 or PAG ISO 46	175
Denso 7SB16 with air condition at the rear	02.96-03	R134a	1100	PAG	PAO 68 or PAG ISO 46	175
compressor: Denso 10PA17C	02.96-03	R134a	920	PAG	PAO 68 or PAG ISO 46	120
compressor: Sanden SD7V16	02.96-03	R134a	850	PAG	PAO 68 or PAG ISO 46	135
Vito/Viano (W639)	2003-12	R134a	550	PAG	PAO 68 or PAG ISO 46	190
Vito/Viano (W639) with air condition at the rear	2003-12	R134a	840	A001 9890 803	PAO 68 or PAG ISO 46	190
Long wheelbase and air conditioning at the rear	2003-12	R134a	870	A001 9890 803	PAO 68 or PAG ISO 46	190

Mitsubishi

3000 GT	1993-00	R134a	740-790	Sunpag 56	PAO 68 or PAG ISO 46	140-180
ASX	2008-	R134a	500	Sunpag 56	PAO 68 or PAG ISO 46	n.a.
ASX	2010-	R134a	500	PAG	PAO 68 or PAG ISO 46	80
Carisma	1996-00	R134a	680-720	Sunpag 56	PAO 68 or PAG ISO 46	120
Carisma diesel	1997-00	R134a	680-720	SP20	PAO 68 or PAG ISO 10	135
Colt/Lancer	1992-96	R134a	570-610	Sunpag 56	PAO 68 or PAG ISO 46	120
Colt/Lancer (CK/P) 1,3i/1,6i	1996-03	R134a	555-595	Sunpag 56	PAO 68 or PAG ISO 46	60
Colt (Z2/CZ/Z30)	2004-	R134a	430	Dens Oil 8	PAO 68 or PAG ISO 46	100
Eclipse (D3)	1996-05	R134a	630-670	Sunpag 56	PAO 68 or PAG ISO 46	170-190
Galant	1993-97	R134a	630-670	Sunpag 56	PAO 68 or PAG ISO 46	150-160
Galant	1997-00	R134a	670-710	Sunpag 56	PAO 68 or PAG ISO 46	120



Mitsubishi						
Galloper	08.98-02	R134a	760-800	PAG FD46XG	PAO 68 or PAG ISO 46	170-190
with air conditioning at the rear	08.98-02	R134a	1150-1200	PAG FD46XG	PAO 68 or PAG ISO 46	170-190
Grandis	2004-10	R134a	535-585	Sunpag 56	PAO 68 or PAG ISO 46	160-180
with air conditioning at the rear	2004-10	R134a	725-775	Sunpag 56	PAO 68 or PAG ISO 46	160-180
i-MiEV	2010-	R134a	325	ND11	POE	150
L200	1994-97	R134a	700-740	Dens Oil 8	PAO 68 or PAG ISO 46	100
L200 2.4i/2.5D/2.5D turbo	1997-06	R134a	550-600	ZXL 100 PG	PAO 68 or PAG ISO 46	180
L200 2,5D DI	2006-	R134a	555	ZXL100PG	PAO 68 or PAG ISO 46	130
L300	1994-2004	R134a	700-750	PAG	PAO 68	n.a.
with air conditioning at the rear	1994-2004	R134a	1200-1250	PAG	PAO 68	n.a.
L400	1996-05	R134a	650	ZXL 100 PG	PAO 68 or PAG ISO 46	180
with air conditioning at the rear	1996-05	R134a	950	Sunpag 56	PAO 68 or PAG ISO 46	240
Lancer estate	12.93-97	R134a	700	Sunpag 56	PAO 68 or PAG ISO 46	120-140
Lancer 1,3i/1,6i	2003-08	R134a	480-520	Sunpag 56	PAO 68 or PAG ISO 46	140
Lancer 2,0i/EVO VIII	2003-08	R134a	480-520	Sunpag 56	PAO 68 or PAG ISO 46	120
Lancer (CX/CY)	2008-	R134a	500	Sunpag 56	PAO 68 or PAG ISO 46	n.a.
Outlander	2003-07	R134a	530-570	Sunpag 56	PAO 68 or PAG ISO 46	120
Outlander II (CW/W)	02.2007-12	R134a	500	Dens Oil 8	PAO 68 or PAG ISO 46	100
Outlander III (GG/GF)	08.2012-	R134a	500	PAG	PAO 68 or PAG ISO 46	80
Outlander III (GG/GF) Hybrid	08.2012-	R134a	590	POE MA68EV	PAO 68 AA1	100



Mitsubishi							
Pajero/Shogun	1994-03.00	R134a	600-650	Dens Oil 8	PAO 68 or PAG ISO 46	80	
with air conditioning at the rear	1994-03.00	R134a	1000-1050	Dens Oil 8	PAO 68 or PAG ISO 46	150	
Pajero/Shogun	04.00-07	R134a	480-520	Dens Oil8	PAO 68 or PAG ISO 46	120	
with air conditioning at the rear	04.00-03	R134a	770-810	Dens Oil8	PAO 68 or PAG ISO 46	140	
Pajero/Shogun Sport	2000-07	R134a	600-650	Sunpag 56	PAO 68 or PAG ISO 46	170	
Pajero/Shogun Pinin LHD	1999-05	R134a	600-640	ZXL 200 PG	PAO 68 or PAG ISO 10	n.a.	
Pajero/Shogun Pinin RHD	1999-05	R134a	550-590	ZXL 200 PG	PAO 68 or PAG ISO 10	n.a.	
Pajero IV (V80)	02.2007-	R134a	550	ZXL 100PG	PAO 68 or PAG ISO 46	n.a.	
with air conditioning at the rear	02.2007-	R134a	870	ZXL 100PG	PAO 68 or PAG ISO 46	n.a.	
Santamo	1999-06	R134a	730	PAG FD46XG	PAO 68 or PAG ISO 46	210	
Sigma	1990-1996	R134a	740-790	PAG	PAO 68	n.a.	
Space Gear	1995-05	R134a	650	ZXL 100PG	PAO 68 or PAG ISO 46	180	
with air conditioning at the rear	1995-05	R134a	950-1000	Sunpag 56	PAO 68 or PAG ISO 46	240	
Space Runner/Wagon Denso compressor: 10PA15	06.93-1998	R134a	720	Dens Oil 8	PAO 68 or PAG ISO 46	140	
Space Runner/Wagon Denso compressor: 10PA17	06.93-1998	R134a	720	Dens Oil 8	PAO 68 or PAG ISO 46	180	
Space Runner/Wagon	1999-12.99	R134a	550	Dens Oil 8	PAO 68 or PAG ISO 46	80	
Space Runner/Wagon 2,0 diesel	12.93-98	R134a	720	Dens Oil 8	PAO 68 or PAG ISO 46	100-140	
Space Runner (N50)	08.99-04	R134a	500-600	PAG	PAO 68	n.a.	
Space Star	1998-05	R134a	660-700	Sunpag 56	PAO 68 or PAG ISO 46	120	



Nissan

200SX (S14)	1994-03	R134a	600-800	Nissan Typ R	PAO 68 or PAG ISO 10	200
300ZX (Z32)	1994-09.95	R134a	550-650	KLH00-PAGSO	PAO 68 or PAG ISO 46	200
370Z (Z34)	2009-	R134a	500	DH-PS	PAO 68 or PAG ISO 46	150
Almera (N15) RHD - Calsonic compressor	1995-00	R134a	450-550	Nissan Typ R	PAO 68 or PAG ISO 10	180
RHD - Zexel compressor	1995-00	R134a	450-550	Nissan Typ R	PAO 68 or PAG ISO 10	200
Almera (N15) LHD - Calsonic compressor	1995-00	R134a	600-700	Nissan Typ R	PAO 68 or PAG ISO 10	180
LHD - Zexel compressor	1995-00	R134a	600-700	Nissan Typ R	PAO 68 or PAG ISO 10	200
Almera (N16)	07.00-06	R134a	450-550	PAG	PAO 68 or PAG ISO 46	200
Almera Tino V10	08.00-06	R134a	450-550	PAG	PAO 68 or PAG ISO 46	200
Cabstar (F23)	06.94-00	R134a	600-700	KLH00-PAGSO	PAO 68 or PAG ISO 46	250
Cabstar 3,0Di (TLO)	2004-07	R134a	750	PAG	PAO 68 or PAG ISO 46	250-270
Cabstar (F24) 2,5D/ 3,0D	2006-	R134a	300	KLH00-PAGSO	PAO 68 or PAG ISO 46	150
Evalia	2011-	R134a	450	PAG	PAO 68	130
with air conditioning at the rear	2011-	R134a	650	PAG	PAO 68	230
Interstar (X70) 1,9D/ 2,2D/ 2,5D/ 3,0D	2003-06	R134a	820-880	PAG	PAO 68	150
7-seater with air conditioning at the rear	2003-06	R134a	1300	PAG	PAO 68	170
16-seater with air conditioning at the rear	2003-06	R134a	1400	PAG	PAO 68	170
Interstar (X70) 2,5DdCi	2006-	R134a	750	PAG	PAO 68 or PAG ISO 150	220
Interstar (X70) 2,5DdCi 9-Sitzer with air condition at the rear	2006-	R134a	1300	PAG	PAO 68 or PAG ISO 150	240
Interstar (X70) 2,5DdCi 16-Sitzer with air condition at the rear	2006-	R134a	1400	PAG	PAO 68 or PAG ISO 150	240



Nissan

Juke	2010-	R134a	450	DH-PR	PAO 68 or PAG ISO 10	130
Kubistar (X76) 1,2i/1,2i16V/1,5D dCi/1,6i	2003-08	R134a	640-680	SP10	PAO 68 or PAG ISO 46	135
Leaf	2010-	R134a	400	ND11	POE	150
Maxima QX (A32)	1994-00	R134a	600-700	Nissan Typ S	PAO 68 or PAG ISO 46	250
Maxima QX (A33) 2,0V6/3,0V6	03.00-04	R134a	600-700	KLH00-PAGSO	PAO 68 or PAG ISO 46	200
Micra (K11)	04.94-00	R134a	425-475	Nissan Typ R	PAO 68 or PAG ISO 10	200
Micra (K11)	2000-03	R134a	475-525	PAG	PAO 68 or PAG ISO 46	200
Micra (K12) 1,0i/1,2i/1,4i	2003-	R134a	450-500	KLH00-PAGRO	PAO 68 or PAG ISO 10	n.a.
Micra (K12) 1,5dCi	2003-	R134a	500-600	KLH00-PAGRO	PAO 68 or PAG ISO 10	135
Micra (K12) 1,6i	2005-	R134a	550	PAG	PAO 68 or PAG ISO 10	120
Micra (K13) 1,2i	2010-	R134a	400	DH-PR	PAO 68 or PAG ISO 10	120
Micra C+C (K12) 1,4i	2005-	R134a	500	PAG	PAO 68 or PAG ISO 10	80
Micra C+C (K12) 1,6i	2005-	R134a	450	PAG	PAO 68 or PAG ISO 10	120
Murano 3,5i	2005-08	R134a	525	KLH00-PAGSO	PAO 68 or PAG ISO 46	150
Murano (Z51) 3,5i/2,5DdCi	2008-	R134a	600	KHL00-PAGSO	PAO 68 or PAG ISO 46	150
Navara (D40) 2,5DdCi with manual air conditioning	2005-	R134a	1080	PAG	PAO 68 or PAG ISO 46	280
Navara (D40) 2,5DdCi with automatic air conditioning	2005-	R134a	700	PAG	PAO 68 or PAG ISO 46	180
Navara (D40) 2,5DdCi with air condition at the rear	2005-	R134a	800	PAG	PAO 68 or PAG ISO 46	210
Note 1,4i	2007-06.13	R134a	450-500	PAG	PAO 68 or PAG ISO 10	80
Note 1,6i	2006-06.13	R134a	475	PAG	PAO 68 or PAG ISO 10	120



Nissan

Note 1,5DdCi	2006-06.13	R134a	550	PAG	PAO 68 or PAG ISO 10	135
NV200 (M20) 1,6i	2010-	R134a	450	DH-PR	PAO 68 or PAG ISO 10	120
with air conditioning at the rear	2010-	R134a	650	DH-PR	PAO 68 or PAG ISO 10	220
NV200 (M20) 1,5DdCi	2010-	R134a	450	DH-PS	PAO 68 or PAG ISO 46	135
with air conditioning at the rear	2010-	R134a	650	DH-PS	PAO 68 or PAG ISO 46	235
NV400	2011-	R134a	580	PAG	PAO 68 or PAG ISO 46	120
Pathfinder (R51) 4,0i/2,5D dCi	2004-	R134a	700	KLH00-PAGSO	PAO 68 or PAG ISO 46	180
with air conditioning at the rear	2004-	R134a	850	KLH00-PAGSO	PAO 68 or PAG ISO 46	180
Patrol GR (Y60)	07.94-98	R134a	550-650	Nissan Typ S	PAO 68 or PAG ISO 46	200
Patrol (Y61) 2,8D/3,0D	1998-08	R134a	750-850	Nissan Typ S	PAO 68 or PAG ISO 46	300
Pick-up (D21)	03.92-98	R134a	750-850	Nissan Typ R	PAO 68 or PAG ISO 10	200
Pick-up (D22)	1998-02	R134a	500-600	Nissan Typ R	PAO 68 or PAG ISO 10	200
Pick-up/Navara (D22) 2,5Di	2002-07	R134a	550-650	KLH00-PAGSO	PAO 68 or PAG ISO 46	200
Pick-up/Navara (D22) 2,4i	2002-07	R134a	600-700	KLH00-PAGRO	PAO 68 or PAG ISO 10	200
Pixo	2009-	R134a	375	PAG	PAO 68 or PAG ISO 10	65
Primera (P10)	09.93-96	R134a	700-800	Nissan Typ R	PAO 68 or PAG ISO 10	200
Primera (W10) - Calsonic compressor	09.93-05.96	R134a	550-650	KLH00-PAGRO	PAO 68 or PAG ISO 10	180
Zexel compressor	09.93-05.96	R134a	550-650	Nissan Typ R	PAO 68 or PAG ISO 10	200
Primera (P11)	1996-99	R134a	550-650	Nissan Typ R	PAO 68 or PAG ISO 10	180
Primera 1.6/2.0 D Turbo (P11-144)	1999-02	R134a	550-650	Nissan Typ R	PAO 68 or PAG ISO 10	180



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Primera 1,8/2,0 (P11-144)	1999-02	R134a	550-650	Nissan Typ S	PAO 68 or PAG ISO 46	200
Primera (P12)	07.02-07	R134a	500	KLH00-PAGSO	PAO 68 or PAG ISO 46	180
Primastar (X83) 1,9D dCi	2002-06	R134a	700	Planetelf 488	PAO 68 or PAG ISO 150	220
Primastar 2,0i / 2,0D dCi / 2,5DdCi	2006-	R134a	750	PAG	PAO 68 or PAG ISO 150	220
with air conditioning at the rear	2006-	R134a	1050	PAG	PAO 68 or PAG ISO 150	240
Pulsar	2014-	R1234yf	450	ND12	PAO 68 AA1 or PAG YF	150
Qashqai / Qashqai +2	2007-11.13	R134a	450	SDH-PS	PAO 68 or PAG ISO 46	150
Qashqai (J11)	2014-	R1234yf	500	ND12	PAO 68 AA1 or PAG YF	110
QX	1994-2000	R134a	650	PAG 46	PAO 68 or PAG ISO 46	250
Serena/Vanette Cargo RHD	92-06.96	R134a	600-700	Nissan Typ S	PAO 68 or PAG ISO 46	250
with air conditioning at the rear	92-06.96	R134a	725-825	Nissan Typ S	PAO 68 or PAG ISO 46	250
Serena/Vanette Cargo LHD	92-06.96	R134a	625-725	Nissan Typ S	PAO 68 or PAG ISO 46	250
with air conditioning at the rear	92-06.96	R134a	675-775	Nissan Typ S	PAO 68 or PAG ISO 46	250
Serena/Vanette Cargo RHD	07.96-03	R134a	550-650	Nissan Typ S	PAO 68 or PAG ISO 46	250
with air conditioning at the rear	07.96-03	R134a	675-775	Nissan Typ S	PAO 68 or PAG ISO 46	250
Serena/Vanette Cargo LHD	07.96-03	R134a	575-675	Nissan Typ S	PAO 68 or PAG ISO 46	250
with air conditioning at the rear	07.96-03	R134a	625-725	Nissan Typ S	PAO 68 or PAG ISO 46	250
Sunny (N14/B13)	10.92-95	R134a	700-800	Nissan Typ R	PAO 68 or PAG ISO 10	200
Sunny estate/van (Y10)	09.92-03.94	R134a	700-800	Nissan Typ R	PAO 68 or PAG ISO 10	200
Sunny estate/van (Y10)	04.94-96	R134a	650-750	KLH00-PAGRO	PAO 68 or PAG ISO 10	180-200



Nissan

Terrano II (R20)	1993-08	R134a	700-800	Nissan Typ R	PAO 68 or PAG ISO 10	200
Tiida 1,6i/1,8i	2007-	R134a	450	DH-PR	PAO 68 or PAG ISO 10	120
Tiida 1,5DdCi	2007-	R134a	450	DH-PS	PAO 68 or PAG ISO 46	100
Urvan (E24)	07.94-96	R134a	900-1000	KLH00-PAGSO	PAO 68 or PAG ISO 46	250
with air conditioning at the rear	07.94-96	R134a	1150-1250	KLH00-PAGSO	PAO 68 or PAG ISO 46	250
Vanette Cargo (C23H) 2,3D	07.96-01	R134a	600	KLH00-PAGSO	PAO 68 or PAG ISO 46	250
with air conditioning at the rear	07.96-01	R134a	700	KLH00-PAGSO	PAO 68 or PAG ISO 46	250
X-Trail 2,0i/2,5i/2,2Di/2,2DdCi	2001-07	R134a	500	KLH00-PAGSO/Nissan Type S	PAO 68 or PAG ISO 46	180
X-Trail (T31) 2,0i/ 2,5i/ 2,0DdCi	2007-14	R134a	450	PAG	PAO 68 or PAG ISO 46	150
X-Trail (T32) 1,6 DdCi	2014-	R1234yf	500	ND12	PAO 68 AA1 or PAG YF	110

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Adam	2013-	R134a	450	PAG 46a	n.a.	n.a.
Agila (H00) 1,1i/1,2i/1,3DCDTi	2000-08	R134a	500	90510419	PAO 68 or PAG ISO 46	140-160
Agila 1,0 i/ 1,2i	2008-	R134a	370	PAG	PAO 68 or PAG ISO 46	90
Agila 1,3DCDTi	2008-	R134a	370	PAG	PAO 68 or PAG ISO 46	120
Ampera	2011-	R134a	950	POE	POE	180
Antara LHD 2.0D/2.2D	2006-	R134a	520	PAG	PAO 68 or PAG ISO 150	150
Antara LHD 2.4i/3.0i/3.2i	2006-	R134a	660	PAG	PAO 68 or PAG ISO 150	150
Astra F	1991-94	R134a	700	90443840	PAO 68 or PAG ISO 150	295



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Astra F	1994-98	R134a	900	90443840	PAO 68 or PAG ISO 150	295
Astra G motor: model year:	1998-05					
Z16XE+YNG/Y17DT/Z17DTL/X20+Y20DTL/Y20DTH+22DTR/Z22SE	1998-01	R134a	700	90509933	PAO 68 or PAG ISO 46	120
Z16XE+YNG/Y17DT/Z17DTL/X20+Y20DTL/Y20DTH+22DTR/Z22SE	2002-05	R134a	600	90509933	PAO 68 or PAG ISO 46	120
Z20LET	2000-05	R134a	700	90509933	PAO 68 or PAG ISO 46	150
all other engines	1998-01	R134a	700	90509933	PAO 68 or PAG ISO 46	150
all other engines	2002-05	R134a	600	90509933	PAO 68 or PAG ISO 46	150
Astra H motor: model year:	2004-09					
Z14XEL/Z14XEP/Z16XEP/Z18XE	2004-06	R134a	475	ND 8	PAO 68 or PAG ISO 46	150
Z14XEL/Z14XEP/Z16XEP/Z18XE	2006-	R134a	450	ND 8	PAO 68 or PAG ISO 46	150
Z20LEL	2004-09	R134a	500	ND 8	PAO 68 or PAG ISO 46	150
Z20LER	2004-2006	R134a	500	PAG	PAO 68 or PAG ISO 46	150
Z20LER	2006-	R134a	475	PAG	PAO 68 or PAG ISO 46	150
Z20LEH	2005-	R134a	450	PAG	PAO 68 or PAG ISO 46	150
Z17DTH/Z17DTL	2004-06	R134a	500	ND 8	PAO 68 or PAG ISO 46	120
Z17DTH/Z17DTL	2006-	R134a	475	ND 8	PAO 68 or PAG ISO 46	120
Z19DTH/Z19DT	2004-06	R134a	475	ND 8	PAO 68 or PAG ISO 46	135
Z19DTH/Z19DT	2006-	R134a	450	ND 8	PAO 68 or PAG ISO 46	135



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Astra J motor:	2010-					
A14XER / A16XER / A13DTH / A17DTR	2010-15	R134a	600	PAG	PAO 68 or PAG ISO 46	125
A14NET / A16LET with manual transmission	2010-15	R134a	600	PAG	PAO 68 or PAG ISO 46	125
A14NET / A16LET with automatic transmission	2010-15	R134a	630	PAG	PAO 68 or PAG ISO 46	125
A20DTH	2010-15	R134a	630	PAG	PAO 68 or PAG ISO 46	125
Calibra (7*)	1993-97	R134a	750	90443840	PAO 68 or PAG ISO 150	295
Calibra (8*)	1994-97	R134a	1000	90443840	PAO 68 or PAG ISO 150	295
Campo-Brava diesel	1994-03	R134a	750	PAG	PAO 68 or PAG ISO 46	260
Cascada engine: A14NET/A16XHT	2013-	R134a	600	PAG	PAO 68	125
Cascada engine: A20DTH/A20DTR	2013-	R134a	630	PAG	PAO 68	125
Combo C motor: model year	2001-					
Z13DT/Y17DT/Z17DTH	2001-	R134a	560	90510419	PAO 68 or PAG ISO 46	120
Z14XEP/Z16SE/Z12XEP	2001-	R134a	650	90510419	PAO 68 or PAG ISO 46	150
Y17DTL	2001-03	R134a	650	90510419	PAO 68 or PAG ISO 46	120
Y17DTL	2004-	R134a	560	90510419	PAO 68 or PAG ISO 46	120
Combo D (X12) with Sanden compressor SD6V12	2012-	R134a	450	SP10	PAO 68 or PAG ISO 46	120
Combo D (X12) with Denso compressor SD6V12	2012-	R134a	450	ND8	PAO 68 or PAG ISO 46	80
Corsa B/Combo	1993-08.00	R134a	900	Dens Oil 8	PAO 68 or PAG ISO 46	295



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Corsa C motor:	09.00-05					
Z10XE/Z10XEP/Z12XE/Z12XEP/Z14XE/Z14XEP/Z16SE/Z18XE	09.00-07	R134a	650	90510419	PAO 68 or PAG ISO 46	150
Z13DT/Y17DT/Y17DTH	09.00-07	R134a	560	90510419	PAO 68 or PAG ISO 46	120
Y17DTL up to model year 2003	09.00-03	R134a	650	90510419	PAO 68 or PAG ISO 46	120
Y17DTL from model year 2004	2003-07	R134a	560	90510419	PAO 68 or PAG ISO 46	120
Corsa D	2007-	R134a	470	PAG	PAO 68 or PAG ISO 46	80
Cavalier/Vectra-A (7*)	1993-95	R134a	750	90443840	PAO 68 or PAG ISO 150	295
Cavalier/Vectra-A (8*)	1994-95	R134a	1000	90443840	PAO 68 or PAG ISO 150	295
Frontera A	1991-02.95	R134a	800	PAG	PAO 68	200
Frontera A	03.95-08.96	R134a	750	PAG	PAO 68	200
Frontera A diesel	03.95-08.96	R134a	700	PAG	PAO 68	200
Frontera A	09.96-09.98	R134a	650	PAG	PAO 68	200
Frontera B	10.98-03	R134a	650	PAG	PAO 68	270
Insignia	2008-	R134a	600	PAG	PAO 68 or PAG ISO 46	110
with Delphi compressor	2008-	R134a	600	PAG	PAO 68 or PAG ISO 46	150
Meriva Z13DT/Z17DT+DTL+DTH/Z14XEP/Z16SE/Z16+Z18XE/Z16LET	2004-10	R134a	690	Dens Oil 8	PAO 68 or PAG ISO 46	150
Meriva B	06.2010-	R134a	580	PAG	PAO 68	125
Mocca	2012-	R134a	570	PAG	PAO 68	n.a.
Mocca	2013-	R1234yf	570	PAG 46a	n.a.	75
Monterey	1994-98	R134a	750	90510394	PAO 68 or PAG ISO 10	270



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Monterey diesel	1994-98	R134a	750	90510395	PAO 68 or PAG ISO 46	270
Monterey 3.0D Turbo/3.5i	1998-01	R134a	750	PAG	PAO 68	150
Movano 2.5D/2.8D turbo	1998-03	R134a	800-900	SP 20	PAO 68 or PAG ISO 10	135
Movano 1,9D DTI/2,2D DTI/2,5D DTI	2000-03	R134a	820-880	PAG	PAO 68	n.a.
Movano diesel (except for Sanden compressor)	2003-06	R134a	820-880	Planetelf 488	PAO 68 or PAG ISO 150	220
7-seater with air conditioning at the rear	2003-06	R134a	1300	Planetelf 488	PAO 68 or PAG ISO 150	220
16-seater with air conditioning at the rear	2003-06	R134a	1400	Planetelf 488	PAO 68 or PAG ISO 150	220
Movano diesel Sanden compressor, without AC at the rear	2003-06	R134a	820-880	SP10	PAO 68 or PAG ISO 46	135
Movano 2,5DCDTi	2006-	R134a	750	PAG	PAO 68 or PAG ISO 150	220
9-seater with air conditioning at the rear	2006-	R134a	1300	PAG	PAO 68 or PAG ISO 150	240
16-seater with air conditioning at the rear	2006-	R134a	1400	PAG	PAO 68 or PAG ISO 150	240
Movano B	2010-	R134a	600	PAG	PAO 68	n.a.
Movano B with air conditioning at the rear	2010-	R134a	1700	PAG	PAO 68	n.a.
Omega B	1994-03	R134a	950	90443840	PAO 68 or PAG ISO 150	250
Omega 2,0 diesel	1998-09.00	R134a	950	90445840	PAO 68 or PAG ISO 150	295
Omega 2,5 Turbo diesel	1994-03	R134a	950	Dens Oil 8	PAO 68 or PAG ISO 46	155
Sintra	1996-99	R134a	910	90443840	PAO 68 or PAG ISO 150	265
Tigra	1995-03	R134a	900	Dens Oil 8	PAO 68 or PAG ISO 46	295
Tigra B motor: Z14XEP/Z18XE	2004-10	R134a	650	90510419	PAO 68 or PAG ISO 46	150
motor: Z13DT	2004-10	R134a	560	90510419	PAO 68 or PAG ISO 46	120



Opel - Vauxhall

Vectra B	1995-02	R134a	900-950	90443840	PAO 68 or PAG ISO 150	295
Vectra B 2,5	1995-00	R134a	900-950	Dens Oil 8	PAO 68 or PAG ISO 46	120
Vectra 1,7 Turbo diesel	1995-96	R134a	900-950	Dens Oil 8	PAO 68 or PAG ISO 46	155
Vectra 2,0 Turbo diesel - motorcode X20DTH	1997-02	R134a	750	90443840	PAO 68 or PAG ISO 150	295
Vectra C / Signum motor: modelyear:	2002-08					
Z16XE/Z18XE/Z32SE/Z20NET/Z22SE/Z22YH/Y20DTH/Y22DTR	2002-08	R134a	730	90509933	PAO 68 or PAG ISO 46	120
Z19DT/Z19DTH	2002-08	R134a	730	90509933	PAO 68 or PAG ISO 46	135
Y30DT	2002-05	R134a	680	90509933	PAO 68 or PAG ISO 46	120
Vivaro 1,9DDi/1,9DDTi/2,0i/2,5DCDTi	2001-12	R134a	700-750	Planet 488	PAO 68 or PAG ISO 150	220
with air conditioning at the rear	2001-12	R134a	1100	Planet 488	PAO 68 or PAG ISO 150	235
Vivaro 2,0CDTi	2006-	R134a	650	PAG	PAO 68 or PAG ISO 46	220
with air conditioning at the rear	2006-	R134a	950	PAG	PAO 68 or PAG ISO 46	235
Zafira (F75) up to model year 2001	1998-01	R134a	700	90509933	PAO 68 or PAG ISO 46	120
with air conditioning at the rear	1998-01	R134a	950	90509933	PAO 68 or PAG ISO 46	240
Zafira (F75) from model year 2002	2002-05	R134a	600	90509933	PAO 68 or PAG ISO 46	120
with air conditioning at the rear		R134a	725	90509933	PAO 68 or PAG ISO 46	240
Zafira (F75) from model year 2002 motor: Z20LET	2002-05	R134a	700	90509933	PAO 68 or PAG ISO 46	120
with air conditioning at the rear		R134a	800	90509933	PAO 68 or PAG ISO 46	240



Opel - Vauxhall

Zafira B motor: model year:	2006-					
Z16XEP/Z18XER/Z22YH/Z16XE1	2006-	R134a	450	SP10	PAO 68 or PAG ISO 46	120
Z19DT/Z19DTL/Z19DTH/Z13DTH	2006-	R134a	450	SP10	PAO 68 or PAG ISO 46	135
Z20LER/Z20LEH/Z20LEL	2006-	R134a	450	SP10	PAO 68 or PAG ISO 46	150
Zafira C (P12)	2011-	R134a	630	PAG	PAO 68 or PAG ISO 46	125
Zafira C (P12) with engine: A18XER/A18XFR/A18XEL	2011-	R134a	600	PAG	PAO 68 or PAG ISO 46	125

Perodua

Myvi 1,3i	2006-	R134a	330	ND8	PAO 68 or PAG ISO 46	n.a.
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Peugeot

106 - Sanden compressor SD7H13/15	1994-04.96	R134a	850-900	SP20	PAO 68 or PAG ISO 10	135
Sanden compressor SD7V12/16	1994-04.96	R134a	850-900	SP10	PAO 68 or PAG ISO 46	135
106 II	05.96-03	R134a	815-835	SP10	PAO 68 or PAG ISO 46	120-150
106 II diesel/1,6 GTI	05.96-03	R134a	750	SP10	PAO 68 or PAG ISO 46	120-150
107 1,4 HDi	2005-12	R134a	480-520	ZXL200PG	PAO 68 or PAG ISO 10	80
107 motor: 1,0i	2005-12	R134a	450	ZXL200PG	PAO 68 or PAG ISO 10	80
205	1993-98	R134a	675	SP20	PAO 68 or PAG ISO 10	120-150
206	1998-07	R134a	680-720	SP10	PAO 68 or PAG ISO 46	120-150
206 2,0i/1,6D HDi	04.99-07	R134a	650	PAG	PAO 68 or PAG ISO 46	120-150



Peugeot

206 CC 1,6i	2000-07	R134a	680-720	SP10	PAO 68 or PAG ISO 46	120-150
206 CC 2,0i/1,6D HDi	2000-07	R134a	630-670	SP10	PAO 68 or PAG ISO 46	120-150
206+ (T3E) 1,4i	2009-	R134a	700	SP10	PAO 68 or PAG ISO 46	135
207 1,4i/1,6i/1,4D HDi/1,6D HDi/1,4+1,6VTi	2006-	R134a	450	SP10	PAO 68 or PAG ISO 46	135
207 CC 1,6THP/1,6VTi/ 1,6DHDi	2007-	R134a	450	SP10	PAO 68 or PAG ISO 46	135
307 1,4i/1,6i/2,0i/1,4HDi/2,0HDi up to orga no.10080 (i)	2001-06.04	R134a	585	SP10	PAO 68 or PAG ISO 46	135
307/307CC 1,4i/1,6i/2,0i/1,4HDi/2,0HDi from orga no.10080 (i)	06.04-	R134a	450	SP10	PAO 68 or PAG ISO 46	135
307 1,6HDi up to orga no.10218 (i)	2004-11.04	R134a	585	SP10	PAO 68 or PAG ISO 46	135
307/307CC 1,6HDi from orga no.10218 (i)	11.04-	R134a	450	SP10	PAO 68 or PAG ISO 46	135
307 1,4i16V	2004-	R134a	450	SP10	PAO 68 or PAG ISO 46	135
306 Sanden compressor SD7H	1993-97	R134a	875-925	SP20	PAO 68 or PAG ISO 10	120-150
306 Sanden compressor SD7V	1993-97	R134a	875-925	SP10	PAO 68 or PAG ISO 46	120-150
306	1997-03	R134a	700-750	SP10	PAO 68 or PAG ISO 46	120-150
308 / 308 CC 1,4VTi/1,6VTi/1,6THP	2007-14	R134a	450	Dens Oil 8	PAO 68 or PAG ISO 46	80
308 / 308 CC 1,6HDi/2,0HDi	2007-14	R134a	450	Dens Oil 8	PAO 68 or PAG ISO 46	135
308 II	2014-	R1234yf	450	SPA2	PAO 68 AA1 or PAG YF	100
405 II Sanden compressor SD7H13/15	1993-97	R134a	675	SP20	PAO 68 or PAG ISO 10	120-150
Sanden compressor SD7V12/16	1993-97	R134a	675	SP10	PAO 68 or PAG ISO 46	120-150
406 - Delphi compressor	1995-99	R134a	750	Planetelf PAG 488	PAO 68 or PAG ISO 150	250-280
Sanden compressor	1995-99	R134a	780-820	SP10	PAO 68 or PAG ISO 46	120-150



Peugeot						
406 V6	1997-99	R134a	750	SP10	PAO 68 or PAG ISO 46	120-150
406 1,6/1,8/2,0 - motor code XU	1999-04	R134a	775	SP10	PAO 68 or PAG ISO 46	120-150
406 2,0 - motor code EW10	1999-04	R134a	620	SP10	PAO 68 or PAG ISO 46	120-150
406 3,0i	1999-04	R134a	750	SP10	PAO 68 or PAG ISO 46	120-150
406 2,2 HDI	1999-04	R134a	620	UCON RL 488	PAO 68 or PAG ISO 150	250-280
407 1,8i/2,0i/2,2i/3,0i/1,6HDI/2,0HDI	2004-12	R134a	600-650	SP10	PAO 68 or PAG ISO 46	135
407 2,2HDI/2,7HDI/3,0HDI	2004-12	R134a	525	SP10	PAO 68 or PAG ISO 46	135
508	2011-13	R134a	525	SP10	PAO 68 or PAG ISO 46	135
605 2.5D Turbo	1995-09.99	R134a	850	SP10	PAO 68 or PAG ISO 46	120-150
605 V6 - motor code ESJ	1997-09.99	R134a	875	SP10	PAO 68 or PAG ISO 46	120-150
605 - Sanden compressor SD7H13/15	1994-99	R134a	885	SP20	PAO 68 or PAG ISO 10	120-150
Sanden compressor SD7V12/16	1994-99	R134a	885	SP10	PAO 68 or PAG ISO 46	120-150
607	2000-05	R134a	625	PAG	PAO 68 or PAG ISO 46	120-150
607 (Facelift)	2005-	R134a	525-575	SP10	PAO 68 or PAG ISO 46	135
607 (Facelift) 2,7HDI (DT17)	2005-	R134a	575-625	SP10	PAO 68 or PAG ISO 46	135
806	06.94-07.02	R134a	940-980	SP10	PAO 68 or PAG ISO 46	120-150
807 2,0i/2,2i/3,0i/2,2DHDi	2002-10	R134a	640	SP10	PAO 68 or PAG ISO 46	135
807 2,0DHDi	2002-10	R134a	540	SP10	PAO 68 or PAG ISO 46	135
1007	2005-	R134a	580-620	SP10	PAO 68 or PAG ISO 46	135
3008 (1,6HDI/2,0HDI)	2009-10.13	R134a	450	SP10	PAO 68 or PAG ISO 46	135



Peugeot

3008 (1,6THP/1,6VTi)	2009-10.13	R134a	450	SP10	PAO 68 or PAG ISO 46	120
4007	2007-	R134a	500	PAG	PAO 68	90
5008 (1,6THP/1,6VTi)	2009-10.13	R134a	450	SP10	PAO 68 or PAG ISO 46	120
5008 (1,6HDi/2,0HDi)	2009-10.13	R134a	450	SP10	PAO 68 or PAG ISO 46	135
Expert	1995-07	R134a	940-980	SP10	PAO 68 or PAG ISO 46	120-150
Expert 2,0i/1,6HDi/2,0HDi	05.2007-	R134a	675	SP10	PAO 68 or PAG ISO 46	135
with air conditioning at the rear, short wheelbase	05.2007-	R134a	950	SP10	PAO 68 or PAG ISO 46	160
with air conditioning at the rear, long wheelbase	05.2007-	R134a	1075	SP10	PAO 68 or PAG ISO 46	160
Boxer	94-09.96	R134a	950-1050	SP20	PAO 68 or PAG ISO 10	135
with air conditioning at the rear	94-09.96	R134a	1150-1250	SP20	PAO 68 or PAG ISO 10	135
Boxer	10.96-03.02	R134a	750-850	SP20	PAO 68 or PAG ISO 10	135
with air conditioning at the rear	10.96-03.02	R134a	950-1050	SP20	PAO 68 or PAG ISO 10	135
Boxer II (244)	04.02-2006	R134a	750-850	SP20	PAO 68 or PAG ISO 10	135
Boxer III 2,2HDi/3,0HDi	04.2006-	R134a	550	SP10	PAO 68 or PAG ISO 46	200
with air conditioning at the rear	04.2006-	R134a	950	SP10	PAO 68 or PAG ISO 46	220
iOn	2010-	R134a	325	ND11	PAO 68 AA1	150
Partner 1.1/1.4/1.6 carburetor	1996-00	R134a	850-900	SP20	PAO 68 or PAG ISO 10	135
Partner 1,1i/1,4i/1,6i	1996-05	R134a	850-900	SP10	PAO 68 or PAG ISO 46	135
Partner 1,8i/1,8D/1,9D (XUD)/2,0HDi	1996-05	R134a	700-750	SP10	PAO 68 or PAG ISO 46	135
Partner 1,9D (DW8)	1996-05	R134a	750-800	SP10	PAO 68 or PAG ISO 46	135



Peugeot							
Partner Facelift	2005-08	R134a	550-600	SP10	PAO 68 or PAG ISO 46	135	
Partner III 1,6i / 1,6HDI	2008-	R134a	450	SP10	PAO 68 or PAG ISO 46	135	
RCZ 1,6THP/2,0HDI	2010-	R134a	425	PAG	PAO 68 or PAG ISO 46	n.a.	
Porsche							
911 (993)	1993-08.97	R134a	840	Dens Oil 8	PAO 68 or PAG ISO 46	80-120	
911 (996)	1998-05	R134a	900	PAG 46	PAO 68 or PAG ISO 46	180-210	
911 (997)	07.2004-12.11	R134a	850	ND 8	PAO 68 or PAG ISO 46	195	
968	1993-96	R134a	860	PAG	PAO 68	100-140	
Boxster (986)	1996-11.04	R134a	850	PAG 46	PAO 68 or PAG ISO 46	180-210	
Boxter (987)	12.04-12.11	R134a	850	ND 8	PAO 68 or PAG ISO 46	195	
Boxter (981)	04.2012-	R134a	850	ND 8	PAO 68 or PAG ISO 46	150	
Carrera GT 5,7	2003-07	R134a	600	PAG 46	PAO 68 or PAG ISO 46	140	
Cayenne (955)	2002-10	R134a	700	PAG 46	PAO 68 or PAG ISO 46	175	
with air conditioning at the rear	2002-10	R134a	1050	PAG 46	PAO 68 or PAG ISO 46	240	
Cayenne	06.2010-	R134a	850	ND 8	PAO 68 or PAG ISO 46	160	
with air conditioning at the rear	06.2010-	R134a	1100	ND 8	PAO 68 or PAG ISO 46	230	
Cayman (987)	11.2005-2013	R134a	850	ND 8	PAO 68 or PAG ISO 46	195	
Cayman (981)	03.2013-	R134a	850	ND 8	PAO 68 or PAG ISO 46	150	
Macan	02.2014-	R134a	560	ND 8	PAO 68 or PAG ISO 46	110	



Porsche						
Panamera	09.2009-	R134a	580	ND 8	PAO 68 or PAG ISO 46	140
Panamera Hybrid/E-Hybrid	2011-	R134a	850	n.a.	PAO 68 AA1	160

Proton						
413	1995-01	R134a	500-600	PAG	PAO 68	n.a.
420	1996-01	R134a	500-600	PAG	PAO 68	n.a.
Gen-2 1,3i/ 1,6i	2004-	R134a	600	SP10	PAO 68 or PAG ISO 46	120
Impian/Waja 1,6i	2001-07	R134a	575	Dens Oil 8	PAO 68 or PAG ISO 46	120
Satria Neo 1,3i/ 1,6i	2006-	R134a	550	SP10	PAO 68 or PAG ISO 46	135
Savvy 1,2i	2005-	R134a	500	SP10	PAO 68 or PAG ISO 46	135

Renault						
Avantime 2.0i Turbo	2000-04	R134a	855-905	Planetelf PAG488	PAO 68 or PAG ISO 150	220
Avantime 3.0i	2000-04	R134a	855-905	SP10	PAO 68 or PAG ISO 46	135
Captur	06.2013-	R134a	450	PAG 488	PAO 68 or PAG ISO 150	115
Clio	1994-98	R134a	625-695	SP10	PAO 68 or PAG ISO 46	120-150
Clio II	09.98-05	R134a	630-690	SP10	PAO 68 or PAG ISO 46	135
Clio II 2,0i	1999-04	R134a	680-740	SP10	PAO 68 or PAG ISO 46	135
Clio 3	06.05-	R134a	505-565	PAG 46	PAO 68 or PAG ISO 46	125-145
Clio IV	11.2012-	R134a	430	PAG 488	PAO 68 or PAG ISO 150	120










Renault						
Espace II	1994-97	R134a	1225-1275	SP20	PAO 68 or PAG ISO 10	120-150
Espace III	12.96-02	R134a	850-910	SP20	PAO 68 or PAG ISO 10	120-150
Espace V6 24V	1998-02	R134a	865-915	SP10	PAO 68 or PAG ISO 46	135
Espace 1.9 D Turbo	1999-02	R134a	700-740	SP10	PAO 68 or PAG ISO 46	120-150
Espace 2.2 D Turbo	1996-00	R134a	770-830	SP20	PAO 68 or PAG ISO 10	120-150
Espace IV (JKO) 1.9DdCi/2.0i/2.0i Turbo	2002-10	R134a	965-1035	SP10	PAO 68 or PAG ISO 46	190-210
Espace IV (JKO) 2.2DdCi/3.0DdCi/3.5i/2.0DdCi	2002-10	R134a	965-1035	SP10	PAO 68 or PAG ISO 46	210-230
Extra/Express/Rapid	1994-03.98	R134a	645-715	SP10	PAO 68 or PAG ISO 46	120-150
Fluence 1,5DdCi	2010-	R134a	530	PAG 448	PAO 68 or PAG ISO 10	150
Kangoo	1998-08	R134a	615-685	SP10	PAO 68 or PAG ISO 46	120-150
Kangoo 1,5D/1,6i/1,6i16V	02.2008-	R134a	550	SP10	PAO 68 or PAG ISO 46	150
Koleos 2,5i / 2,0dCi	2008-	R134a	550	Sanden SP 10	PAO 68 or PAG ISO 46	120
Laguna	1994-00	R134a	670-730	SP10	PAO 68 or PAG ISO 46	120-150
Laguna 2,0 - motor code F3P 670/674	1994-00	R134a	750-810	SP10	PAO 68 or PAG ISO 46	120-150
Laguna 2,0 16V - motor code N7Q	1996-99	R134a	775-825	SP20	PAO 68 or PAG ISO 10	135
Laguna 2,0 16V - motor code F4R	1999-03	R134a	625-695	SP10	PAO 68 or PAG ISO 46	120-150
Laguna 2,2 D/3,0 V6	1994-00	R134a	750-810	SP10	PAO 68 or PAG ISO 46	135
Laguna 2.2 D Turbo/1.9DdTi	1996-01	R134a	670-730	SP10	PAO 68 or PAG ISO 46	120-150
Laguna II (XGO) 1,6i/1,8i/1,9DdCi/2,2DdCi	2001-05	R134a	625-675	Planetelf PAG488	PAO 68 or PAG ISO 150	240-260
Laguna II (XGO) 2,0i/2,0 IDE	2001-05	R134a	670-730	Planetelf PAG488	PAO 68 or PAG ISO 150	240-260



Renault

Laguna II (XGO) 3,0i	2001-05	R134a	625-675	SP10	PAO 68 or PAG ISO 46	120-150
Laguna II	2005-08	R134a	650	Planetelf 488	PAO 68 or PAG ISO 150	220
Laguna II motor: G9T706+G9T707 (2,2dCi)	2005-09	R134a	650	Planetelf 488	PAO 68 or PAG ISO 150	250
Laguna II motor: L7X733 (3,0i)	2005-09	R134a	650	SP10	PAO 68 or PAG ISO 46	135
Laguna III (BT/01)	10.2007-	R134a	650	SP10	PAO 68 or PAG ISO 46	150
Latitude 2,0DdCi	2010-	R134a	600	PAG	PAO 68 or PAG ISO 46	120
Master II 2,5D/2,8DTi	1998-03	R134a	820-880	SP20	PAO 68 or PAG ISO 10	135
Master II 1,9DdCi /2,2D dCi/ 2,5D dCi	2000-10.2003	R134a	850	Planetelf488	PAO 68 or PAG ISO 150	220
9-seater/16-seater	2000-10.2003	R134a	1350	Planetelf488	PAO 68 or PAG ISO 150	250
with Sanden compressor	2000-10.2003	R134a	850	Sanden SP 10	PAO 68 or PAG ISO 46	135
9--seater/16-seater with Sanden compressor	2000-10.2003	R134a	1350	Sanden SP 10	PAO 68 or PAG ISO 46	155
Master II 2,8 D dCi	10.2003-07	R134a	850	Sanden SP 10	PAO 68 or PAG ISO 46	135
Master II 3,0 D Dxi	10.2003-07	R134a	750	Sanden SP 10	PAO 68 or PAG ISO 46	135
Master II 3,0D DXi	2007-10	R134a	750	Sanden SP 10	PAO 68 or PAG ISO 46	135
Master (EV/UV)	02.2010	R134a	590	SP10	PAO 68 or PAG ISO 46	125
Mégane - Delphi compressor	1995-99	R134a	720-780	Planetelf PAG 488	PAO 68 or PAG ISO 150	205-235
Sanden compressor	1995-99	R134a	725-775	SP10	PAO 68 or PAG ISO 46	135
Mégane 1,4i/1,6i/2.0i	1999-03	R134a	720-780	Planetelf PAG 488	PAO 68 or PAG ISO 150	205-235
Mégane 1,9D/1,9DdTi	1999-03	R134a	720-780	PAG	PAO 68	205-235
Mégane 1,9DdCi	1999-03	R134a	745-815	Planetelf PAG488	PAO 68 or PAG ISO 150	205-235

						
Renault						
Mégane II (XMO) 1,4i/1,5DdCi/1,6i/1,9DdCi/2,0i /2,0dCi	2003-08	R134a	550	Planetelf PAG488	PAO 68 or PAG ISO 150	150
Megane III	11.2008-	R134a	480	SP10	PAO 68 or PAG ISO 46	120
Mégane Scenic	09.96-99	R134a	765-835	PAG	PAO 68 or PAG ISO 46	120-150
Modus	2004-13	R134a	510	SP10	PAO 68 or PAG ISO 46	135
R19	1994-96	R134a	800	SP10	PAO 68 or PAG ISO 46	120-150
R21	1994-95	R134a	715-785	SP20	PAO 68 or PAG ISO 10	120-150
Safrane	1995-00	R134a	815-885	SP10	PAO 68 or PAG ISO 46	120-150
Safrane 2.0 16V/2.5 20V/2.2 D Turbo	1996-12.00	R134a	750-810	SP10	PAO 68 or PAG ISO 46	120-150
Scenic (JA) 1,4i/1,6i	09.99-03	R134a	720-780	Planetelf PAG488	PAO 68 or PAG ISO 150	205-235
Scenic (JA) 2,0i/1,9DdTi/1,9DdCi	09.99-03	R134a	645-715	Planetelf PAG488	PAO 68 or PAG ISO 150	205-235
Scenic II (JMO) 1,4i/1,5DdCi/1,6i/2,0i/1,9DdCi/2,0DdCi	2003-09	R134a	550	Planetelf PAG488	PAO 68 or PAG ISO 150	150
Scenic/Grand Scenic III 1,4i/1,6i/1,5dCi/1,9dCi/2,0dCi	2009-	R134a	480	ND8	PAO 68 or PAG ISO 46	110
Scenic/Grand Scenic III 2,0i	2009-	R134a	510	ZXL100PG	PAO 68 or PAG ISO 46	150
Trafic 1,9DdCi (F9Q760)	2001-08	R134a	700-725	Planetelf PAG488	PAO 68 or PAG ISO 150	220-235
Trafic 1,9DdCi (F9Q762)/2,0i/2,5DdCi	2001-06	R134a	720-780	Planetelf PAG488	PAO 68 or PAG ISO 150	220-235
Trafic 2,0i / 2,5 Ddci	2001-2012	R134a	730	PAG	PAO 68	230
with air conditioning at the rear	2001-2012	R134a	1150	PAG	PAO 68	250
Trafic 2,0DdCi	2006-2014	R134a	650	PAG	PAO 68	230
with air conditioning at the rear	2006-2014	R134a	950	PAG	PAO 68	250
Twingo 1,2i (C3G)	1993-97	R134a	615-685	SP10	PAO 68 or PAG ISO 46	120-150



Renault							
Twingo 1,2i (D7F) / 1,2i 16V (D4F)	1997-07	R134a	710-770	SP10	PAO 68 or PAG ISO 46	120-150	
Twingo II (CNO) 1,2i16V	03.2007-14	R134a	430	SP10	PAO 68 or PAG ISO 46	135	
Twingo II (CNO) 1,6i/1,5dci	03.2007-14	R134a	520	SP10	PAO 68 or PAG ISO 46	135	
Twingo III	09.2014-	R134a	475	PAG	PAO 68	175	
Twingo III	09.2014-	R1234yf	430	VC200YF	PAO 68 AA1 or PAG YF	175	
Vel Satis 2.0iTurbo/3.5i	2000-08	R134a	615-685	Planetelf PAG488	PAO 68 or PAG ISO 150	250	
Wind	2010-	R134a	510	PAG	PAO 68 or PAG ISO 46	135	
Zoe	2013-	R1234yf	1000	ND11	POE	125	
Rover							
Vel Satis 2,2DdCi/3,0 DdCi	2000-08	R134a	615-685	Planetelf PAG488	PAO 68 or PAG ISO 150	265	
200-series	1994-95	R134a	710	SP10	PAO 68 or PAG ISO 46	120-135	
200-series RHD	1995-99	R134a	535-585	SP10	PAO 68 or PAG ISO 46	135	
200-series LHD	1995-99	R134a	612-665	SP10	PAO 68 or PAG ISO 46	135	
216/218 Coupé/Cabrio RHD	1996-99	R134a	535-585	SP10	PAO 68 or PAG ISO 46	135	
216/218 Coupé/Cabrio LHD	1996-99	R134a	612-665	SP10	PAO 68 or PAG ISO 46	135	
25 RHD	1999-05	R134a	540-580	SP10	PAO 68 or PAG ISO 46	135	
25 LHD	1999-05	R134a	620-660	SP10	PAO 68 or PAG ISO 46	135	
400-series	1994-95	R134a	710	SP10	PAO 68 or PAG ISO 46	120-135	
400-series RHD	1995-99	R134a	535-585	SP10	PAO 68 or PAG ISO 46	135	



Rover							
400-series LHD	1995-99	R134a	612-665	SP10	PAO 68 or PAG ISO 46	135	
416 Tourer RHD	1996-99	R134a	535-585	SP10	PAO 68 or PAG ISO 46	135	
416 Tourer LHD	1996-99	R134a	612-665	SP10	PAO 68 or PAG ISO 46	135	
45 RHD	1999-05	R134a	535-585	SP10	PAO 68 or PAG ISO 46	135	
45 LHD	1999-05	R134a	615-665	SP10	PAO 68 or PAG ISO 46	135	
600-series	1993-99	R134a	700-750	Dens Oil 8	PAO 68 or PAG ISO 46	160	
75	1999-05	R134a	400-500	Dens Oil 8	PAO 68 or PAG ISO 46	110-130	
820	1994-99	R134a	600-700	Dens Oil 8	PAO 68 or PAG ISO 46	155	
825	1996-99	R134a	600-700	Dens Oil 8	PAO 68 or PAG ISO 46	80-120	
827	1994-96	R134a	600-700	Dens Oil 8	PAO 68 or PAG ISO 46	100	
825 2.5 D Turbo	1994-96	R134a	600-700	Dens Oil 8	PAO 68 or PAG ISO 46	155	
825 2.5 D Turbo	1996-99	R134a	600-700	Dens Oil 8	PAO 68 or PAG ISO 46	80-120	
MGF	1995-02	R134a	620	SK20	PAO 68 or PAG ISO 10	170	
Streetwise LHD	2003-05	R134a	620-660	SP10	PAO 68 or PAG ISO 46	135	
Streetwise RHD	2003-05	R134a	540-580	SP10	PAO 68 or PAG ISO 46	135	
Saab							
900 Seiko Seiki compressor	1993-96	R134a	725	16 4074 787	PAO 68 or PAG ISO 10	200	
900 Sanden compressor	1997-98	R134a	725	SP10	PAO 68 or PAG ISO 46	150	
9-3 petrol (YS3D)	1998-03	R134a	800	16 4759 106	PAO 68 or PAG ISO 46	150	



Saab

9-3 diesel (YS3D)	1998-03	R134a	800	16 4774 787	PAO 68 or PAG ISO 10	295
9-3 (YD3F) 2,0i/2,2D/2,2TiD/1,8i/1,9TiD/2,8t/1,9D	2003-10	R134a	675	16 4759 106	PAO 68 or PAG ISO 46	130
9000 Seiko Seiki compressor	1992-98	R134a	950	16 4074 787	PAO 68 or PAG ISO 10	200
9000 Sanden compressor	1992-98	R134a	950	16 4759 106	PAO 68 or PAG ISO 46	200
9-5	1997-05	R134a	875	Dens Oil 8	PAO 68 or PAG ISO 46	145
9-5 1,9D TiD	2005-09	R134a	825	16 4759 106	PAO 68 or PAG ISO 46	120
9-5 2.0i/2.3i BioPower/2.0i+2.3i Turbo +/2.3 Aero	2005-09	R134a	825	PAG	PAO 68 or PAG ISO 46	145

Seat

Alhambra	10.95-00	R134a	950-1000	PAG	PAO 68 or PAG ISO 46	135
with air conditioning at the rear	1996-00	R134a	1350-1400	PAG	PAO 68 or PAG ISO 46	240
Alhambra	06.00-10	R134a	700-750	PAG	PAO 68 or PAG ISO 46	135
with air conditioning at the rear	06.00-10	R134a	1050-1100	PAG	PAO 68 or PAG ISO 46	240
Alhambra (710) Sanden compressor	06.2012-	R134a	600	PAG	PAO 68 or PAG ISO 46	110
with air conditioning at the rear		R134a	1000	PAG	PAO 68 or PAG ISO 46	210
Alhambra (710) Denso compressor	06.2012-	R134a	600	PAG	PAO 68 or PAG ISO 46	140
with air conditioning at the rear		R134a	1000	PAG	PAO 68 or PAG ISO 46	240
Altea Denso compressor 7SEU17C	2004-13	R134a	500-550	PAG	PAO 68 or PAG ISO 46	130-150
Altea Sanden compressor / Delphi compressor	2004-13	R134a	500-550	PAG	PAO 68 or PAG ISO 46	100-120
Altea Zexel compressor / Valeo compressor	2004-13	R134a	500-550	PAG	PAO 68 or PAG ISO 46	105-135



Seat

Altea Denso compressor 7SEU16C	2004-13	R134a	500-550	PAG	PAO 68 or PAG ISO 46	180
Arosa Sanden compressor SD7B	1997-00	R134a	700-750	PAG	PAO 68 or PAG ISO 46	100
Arosa compressor: Sanden SD6V	2000-05	R134a	700-750	PAG	PAO 68 or PAG ISO 46	120
Exeo Denso compressor 7SEU17C	2009-	R134a	500	G052 300 A2	PAO 68 or PAG ISO 46	130
Exeo Denso compressor 6SEU14	2009-	R134a	500	G052 300 A2	PAO 68 or PAG ISO 46	90
Ibiza II/Cordoba RHD	1993-99	R134a	900-930	PAG	PAO 68 or PAG ISO 46	115-130
Ibiza II/Cordoba LHD	1993-99	R134a	850-880	PAG	PAO 68 or PAG ISO 46	115-130
Ibiza III/Cordoba RHD	1999-02	R134a	775	PAG	PAO 68 or PAG ISO 46	135
Ibiza III/Cordoba LHD	1999-02	R134a	775	PAG	PAO 68 or PAG ISO 46	135
Ibiza IV/Cordoba (6L2)	2002-03.08	R134a	525-575	PAG	PAO 68 or PAG ISO 46	140
Ibiza V (6J) with Denso compressor	03.2008-	R134a	500	G 052 300 A2	PAO 68 or PAG ISO 46	140
Ibiza V (6J) with Sanden compressor	03.2008-	R134a	500	G 052 300 A2	PAO 68 or PAG ISO 46	110
Ibiza V (6J) with Zexel/Valeo compressor	03.2008-	R134a	500	G 052 300 A2	PAO 68 or PAG ISO 46	120
Inca RHD	1995-03	R134a	885-940	PAG	PAO 68 or PAG ISO 46	110-130
Inca LHD	1995-03	R134a	840-890	PAG	PAO 68 or PAG ISO 46	110-130
Leon	1999-05	R134a	750-800	PAG	PAO 68 or PAG ISO 46	120-150
Leon II Denso 7SEU17C compressor	2005-	R134a	500-550	PAG	PAO 68 or PAG ISO 46	130-150
Leon II Sanden PXE16 compressor	2005-	R134a	500-550	PAG	PAO 68 or PAG ISO 46	100-120
Leon II Zexel DSC17E compressor	2005-	R134a	500-550	PAG	PAO 68 or PAG ISO 46	105-135
Leon II Denso compressor 7SEU16C	2004-	R134a	500-550	PAG	PAO 68 or PAG ISO 46	180



Seat

Mii	2012-	R134a	380	PAG	PAO 68 or PAG ISO 46	120
Toledo I RHD	1993-99	R134a	870-930	PAG	PAO 68 or PAG ISO 46	110-130
Toledo I LHD	1993-99	R134a	820-880	PAG	PAO 68 or PAG ISO 46	110-130
Toledo II	1999-05	R134a	750-800	PAG	PAO 68 or PAG ISO 46	120-150
Toledo III (5P2) Denso compressor	10.04-12	R134a	525	G052 154 A2	PAO 68 or PAG ISO 46	140
Toledo III (5P2) Sanden compressor	10.04-12	R134a	525	G052 154 A2	PAO 68 or PAG ISO 46	110
Toledo III (5P2) Zexel compressor	10.04-12	R134a	525	G052 154 A2	PAO 68 or PAG ISO 46	120
Toledo IV	07.2012-	R134a	500	G052 154 A2	PAO 68 or PAG ISO 46	120

Skoda

Fabia	2000-07	R134a	525-575	G052 300 A2	PAO 68 or PAG ISO 46	130-150
Fabia II	2007-	R134a	550	G052 300 A2	PAO 68 or PAG ISO 46	140
Felicia 1,3	1996-01	R134a	750-780	SP20	PAO 68 or PAG ISO 10	135
Felicia 1,6	1996-01	R134a	720-750	SP10	PAO 68 or PAG ISO 46	100
Octavia (1U)	1996-05	R134a	750-800	G052 154 A2	PAO 68 or PAG ISO 46	120-150
Octavia II (1Z) Denso compressor 7SEU17C	06.04-	R134a	500-550	G052 300 A2	PAO 68 or PAG ISO 46	130-150
Octavia II (1Z) Sanden compressor	06.04-	R134a	500-550	G052 300 A2	PAO 68 or PAG ISO 46	100-120
Octavia II (1Z) Zexel compressor	06.04-	R134a	500-550	G052 300 A2	PAO 68 or PAG ISO 46	105-135
Octavia II (1Z) Denso compressor 7SEU16C	06.04-	R134a	500-550	G052 300 A2	PAO 68 or PAG ISO 46	180
Rapid with compressor 5Q0820803A / 6R0820803D	2012-	R134a	500	G052 154 A2	PAO 68 or PAG ISO 46	80



Skoda						
Rapid with compressor 6R0820803A/B	2012-	R134a	500	G052 154 A2	PAO 68 or PAG ISO 46	125
Roomster / Practic Delphi/Zexel compressor	2006-	R134a	525-575	G052 300 A2	PAO 68 or PAG ISO 46	120
Roomster / Praktik with Denso compressor	2006-	R134a	500	G052 300 A2	PAO 68 or PAG ISO 46	90
Superb	2002-08	R134a	575-625	G052 300 A2	PAO 68 or PAG ISO 46	250
Superb II	2008-	R134a	525	PAG	PAO 68 or PAG ISO 46	180
Yeti	2009-	R134a	525	PAG	PAO 68 or PAG ISO 46	n.a.
Smart (MCC)						
Cabrio, City Coupe, Roadster, Crossblade (450)	1998-03	R134a	620	A001 989 0803	PAO 68 or PAG ISO 46	180
Cabrio, City, Fortwo (450)	2003-07	R134a	450	A001 989 0803	PAO 68 or PAG ISO 46	180
Forfour (454)	2004-06	R134a	440	A001 989 0803	PAO 68 or PAG ISO 46	100
Fortwo (451)	2007-	R134a	420	PAG	PAO 68	n.a.
Fortwo (451.391/491) electric drive	2010-	R134a	550			n.a.
Roadster, Coupe (452)	2003-06	R134a	650	A001 989 0803	PAO 68 or PAG ISO 46	180
Ssangyong						
Actyon 2,0D	2006-	R134a	650	PAG	PAO 68	n.a.
Korando	1997-2007	R134a	650-750	ZXL 200 PG	PAO 68 or PAG ISO 10	200
Kyron	2005-	R134a	600-700	PAG	PAO 68	265
Musso	1996-99	R134a	650-750	ZXL 200 PG	PAO 68 or PAG ISO 10	200



Ssangyong

Musso (FJ)	1999-06	R134a	650-750	PAG	PAO 68	n.a.
Rexton	2002-06	R134a	800-900	PAG	PAO 68 or PAG ISO 150	265
with air conditioning at the rear	2002-06	R134a	1150-1250	PAG	PAO 68 or PAG ISO 150	265
Rexton II 2.7D Delphi compressor	2006-12	R134a	850	PAG	PAO 68 or PAG ISO 150	260
with automatic air-conditioning		R134a	750	PAG	PAO 68 or PAG ISO 150	220
with air conditioning at the rear		R134a	1200	PAG	PAO 68 or PAG ISO 150	260
Rodius 2,7D	2005-	R134a	1050	PAG	PAO 68	n.a.

Subaru

Forester (SF) RHD	1997-03	R134a	650-750	ZXL 200 PG	PAO 68 or PAG ISO 10	n.a.
Forester (SF) LHD	1997-03	R134a	550-650	DH-PR	PAO 68 or PAG ISO 10	n.a.
Forester (SG) 2.0i/2.0i Turbo/2.5i	2003-08	R134a	550-650	ZXL 200 PG	PAO 68 or PAG ISO 10	145
Forester (SH)	2008-13	R134a	500	PAG	PAO 68	n.a.
Impreza LHD	1994-11.00	R134a	550-650	DH-PR	PAO 68 or PAG ISO 10	145
Impreza RHD	1994-00	R134a	550-650	PAG	PAO 68 or PAG ISO 10	245
Impreza LHD 1,6i/2,0i/2,0i Turbo/1,5i/2,5i	2001-07	R134a	450-550	ZXL 200PG	PAO 68 or PAG ISO 10	n.a.
Impreza RHD 1,6i/2,0i/2,0i Turbo/1,5i/2,5i	2001-07	R134a	450-550	Dens Oil 9	PAO 68 or PAG ISO 10	n.a.
Impreza (GR)	2007-	R134a	500	PAG	PAO 68	n.a.
Justy (G3X) 1,3i/1,5i	2003-07	R134a	430	PAG	PAO 68	90
Justy IV	2007-	R134a	300	PAG	PAO 68	n.a.



Subaru

Legacy	1994-95	R134a	600-700	ZXL 100 PG	PAO 68 or PAG ISO 46	150
Legacy LHD	1.96-12.96	R134a	600-700	PAG	PAO 68 or PAG ISO 10	n.a.
Legacy LHD	1.97-1999	R134a	550-650	PAG	PAO 68 or PAG ISO 10	n.a.
Legacy LHD	2000-03	R134a	600-700	PAG	PAO 68 or PAG ISO 10	n.a.
Legacy RHD	1.96-12.96	R134a	700-800	PAG	PAO 68 or PAG ISO 10	n.a.
Legacy RHD	1.97-1999	R134a	775-825	PAG	PAO 68 or PAG ISO 10	n.a.
Legacy RHD	2000-03	R134a	625-675	PAG	PAO 68 or PAG ISO 10	n.a.
Legacy/ Legacy Outback (BL/ BP)	2003-09	R134a	430	PAG	PAO 68	n.a.
Legacy V 2,5i/2,0D	09.2009-	R134a	425	PAG	PAO 68	n.a.
Outback	2003-09	R134a	430	PAG	PAO 68	n.a.
Outback (BM/BR)	09.2009-	R134a	425	PAG	PAO 68	n.a.
SVX	1994-97	R134a	650	ZXL 100 PG	PAO 68 or PAG ISO 46	150
Trezia	2011-	R134a	360	ND8	PAO 68 or PAG ISO 46	65
Tribeca (B9)	2005-	R134a	600	PAG	PAO 68	n.a.
Tribeca (B9) with air conditioning at the rear	2005-	R134a	870	PAG	PAO	n.a.
WRX	2011-	R134a	500	DH-PR	PAO 68 or PAG ISO 10	n.a.

Suzuki

Alto	1997-02	R134a	500-600	PAG	PAO 68	n.a.
Alto	06.02-09	R134a	400	ND8	PAO 68 or PAG ISO 46	n.a.



Suzuki							
Alto (GF)	2009-	R134a	370	PAG	PAO 68 or PAG ISO 46	65	
Baleno	1995-03	R134a	600	PAG	PAO 68	150	
Cappuccino	1993-96	R134a	700	PAG	PAO 68	150	
Grand Vitara	1998-00	R134a	500-600	PAG	PAO 68	n.a.	
Grand Vitara 1,6i/2,0i/2,5i/2,0 D Turbo Seiko compressor	2000-05	R134a	390-490	RS 20	PAO 68 or PAG ISO 10	130	
Denso compressor	2000-05	R134a	390-490	Dens Oil 8	PAO 68 or PAG ISO 46	180	
Grand Vitara 2,7 V6	2001-05	R134a	450-550	Dens Oil 8	PAO 68 or PAG ISO 46	100	
Grand Vitara 1,6i	10.05-	R134a	570	PAG	PAO 68	120	
Grand Vitara 1.9D DDiS/2.0i Zexel compressor	10.05-	R134a	570	PAG	PAO 68 or PAG ISO 100	160	
Ignis	2000-03	R134a	330-390	PAG	PAO 68	n.a.	
Ignis II 1,3i/1,5i	09.03-	R134a	430	PAG	PAO 68	90	
Ignis II 1,3D DDiS	09.03-	R134a	480	SP10	PAO 68 or PAG ISO 46	100	
Jimny	1998-03	R134a	500-600	PAG	PAO 68	n.a.	
Jimny 1,3i	2004-	R134a	430	99000-99088-00D0	PAO 68	120	
Jimny 1,5D DDiS	2004	R134a	550	99000-99088-00D0	PAO 68	120	
Kizashi	2010-	R134a	530	99000-99022-00E	PAO 68 or PAG ISO 46	150	
Liana	2001-08	R134a	470-530	PAG	PAO 68	n.a.	
Splash	2008-	R134a	370	PAG	PAO 68	n.a.	
Super Carry 1,3i	1999-06	R134a	500-560	PAG	PAO 68	n.a.	
Swift	1993 ->	R134a	700	PAG	PAO 68	n.a.	



Suzuki

Swift 1,3i/1,5i/1,6i	2004-10	R134a	370	PAG	PAO 68	n.a.
Swift 1.3D Sanden compressor	2004-10	R134a	370	SP10	PAO 68 or PAG ISO 46	120
SX4 1,5i/ 1,6i	2006-13	R134a	430	SP10	PAO 68 or PAG ISO 46	60
Wagon R (EM)	1997-00	R134a	500-600	PAG	PAO 68	n.a.
Wagon R (MM) 1,0i/1,2i/1,3D DDiS	05.00-	R134a	480	PAG	PAO 68	n.a.
Wagon R (MM) 1,3i	2000-06	R134a	450-500	PAG	PAO 68	n.a.

Tata

Safari 1,9D	1999-07	R134a	1150	Dens Oil 8	PAO 68 or PAG ISO 46	220
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Toyota

4Runner RHD	1993-96	R134a	650-750	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.
4Runner LHD	1993-96	R134a	700-800	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.
Auris	2007-12	R134a	450	Dens Oil 8	PAO 68 or PAG ISO 46	90
Auris hybrid	2010-	R134a	475	ND Oil 11	POE	135
Avensis (T22)	1998-03	R134a	410-470	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.
Avensis (T25)	2003-09	R134a	410-470	ND Oil 8	PAO 68 or PAG ISO 46	n.a.
Avensis (T27)	2009-	R134a	440	ND8	PAO 68 or PAG ISO 46	n.a.
Avensis Verso	2001-06	R134a	470-530	ND Oil 8	PAO 68 or PAG ISO 46	n.a.
with air conditioning at the rear	2001-2006	R134a	770-830	ND Oil 8	PAO 68 or PAG ISO 46	n.a.



Toyota							
Aygo	2005-	R134a	500	ZXL200PG	PAO 68 or PAG ISO 10	80	
Camry	1994-96	R134a	850	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.	
Camry (V20)	1996-01	R134a	750-850	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.	
Camry (V30)	11.01-05	R134a	520-580	ND Oil 8	PAO 68 or PAG ISO 46	n.a.	
Carina E	1992-98	R134a	700-800	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.	
Celica (T20)	1994-11.99	R134a	600-700	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.	
Celica (ZZT23)	1999-06	R134a	400-460	Dens Oil 8	PAO 68 or PAG ISO 46	120	
Corolla	1994-97	R134a	650-750	Dens Oil 9	PAO 68 or PAG ISO 10	n.a.	
Corolla	1997-00	R134a	600-700	Dens Oil 9	PAO 68 or PAG ISO 10	n.a.	
Corolla 1,9D - manufactured in Japan	2000-02	R134a	600-700	Dens Oil 9	PAO 68 or PAG ISO 10	n.a.	
Corolla 1,9D – manufactured in Great Britain	2000-02	R134a	450-490	Dens Oil 9	PAO 68 or PAG ISO 10	n.a.	
Corolla (E12U)	2002-08	R134a	425-475	ND Oil 8	PAO 68 or PAG ISO 46	n.a.	
Corolla	2008-	R134a	440	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.	
GT 86	03.2012-	R134a	390	ND8	PAO 68 or PAG ISO 46	n.a.	
GT 86	03.2012-	R1234yf	350	ND12	n.a.	n.a.	
Hi-Lux	1993-96	R134a	700-800	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.	
Hi-Lux	1997-05	R134a	500-600	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.	
Hi-Lux	08.2005-	R134a	450	Dens Oil 8	PAO 68 or PAG ISO 46	80	
iQ	2008-	R134a	370	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.	



Toyota

Landcruiser 3,4	1996-03	R134a	650-750	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.
with air conditioning at the rear	1996-03	R134a	900-1000	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.
Landcruiser 4,5	1995-98	R134a	750	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.
Landcruiser Amazon 4.7/4.2 Turbo D	1998-00	R134a	750	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.
Landcruiser 3.0 Turbo D	1993-96	R134a	850-900	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.
with air conditioning at the rear	1993-96	R134a	1550-1650	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.
Landcruiser Colorado/Prado	1997-99	R134a	650-750	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.
with air conditioning at the rear	1997-99	R134a	900-1000	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.
Landcruiser Amazon 4.2 Turbo D	1995-98	R134a	800-900	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.
Landcruiser (J12)	2003-07.04	R134a	620-680	ND Oil 8	PAO 68 or PAG ISO 46	n.a.
with cooler box	2003-07.04	R134a	720-780	ND Oil 8	PAO 68 or PAG ISO 46	n.a.
with air conditioning at the rear	2003-07.04	R134a	770-830	ND Oil 8	PAO 68 or PAG ISO 46	n.a.
with air condition at the rear + with cooler box	2003-07.04	R134a	870-930	ND Oil 8	PAO 68 or PAG ISO 46	n.a.
Landcruiser (J12)	07.04-	R134a	600	PAG	PAO 68 or PAG ISO 46	125
with cooler box	07.04-	R134a	700	PAG	PAO 68 or PAG ISO 46	125
with air conditioning at the rear	07.04-	R134a	750	PAG	PAO 68 or PAG ISO 46	180
with air condition at the rear + with cooler box	07.04-	R134a	850	PAG	PAO 68 or PAG ISO 46	180










Toyota						
Landcruiser (J15)	2009-	R134a	550	PAG	PAO 68 or PAG ISO 46	n.a.
with cooler box	2009-	R134a	600	PAG	PAO 68 or PAG ISO 46	n.a.
with air conditioning at the rear	2009-	R134a	770	PAG	PAO 68 or PAG ISO 46	n.a.
with air condition at the rear + with cooler box	2009-	R134a	800	PAG	PAO 68 or PAG ISO 46	n.a.
Landcruiser (J20) condenser with 22 mm depth	2008-					n.a.
without/with cooler box	2008-	R134a	870	PAG	PAO 68 or PAG ISO 46	n.a.
with air-conditioning at the rear, without cooler box	2008-	R134a	960	PAG	PAO 68 or PAG ISO 46	n.a.
with air-conditioning at the rear, with cooler box	2008-	R134a	1010	PAG	PAO 68 or PAG ISO 46	n.a.
Landcruiser (J20) condenser with 16 mm depth	2008-					n.a.
without/with cooler box	2008-	R134a	770	PAG	PAO 68 or PAG ISO 46	n.a.
with air-conditioning at the rear, without cooler box	2008-	R134a	920	PAG	PAO 68 or PAG ISO 46	n.a.
with air-conditioning at the rear, with cooler box	2008-	R134a	970	PAG	PAO 68 or PAG ISO 46	n.a.
MR2 (W2)	11.93-00	R134a	800-900	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.
MR2 (W3)	2000-06	R134a	470-530	ND Oil 8	PAO 68 or PAG ISO 46	n.a.
Paseo	1996-99	R134a	550-650	Dens Oil 9	PAO 68 or PAG ISO 10	n.a.
Picnic	1996-00	R134a	700-800	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.
Previa	08.93-06	R134a	850-950	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.
with air conditioning at the rear	08.93-06	R134a	1100-1200	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.
Previa	08.00-06	R134a	670-730	PAG	PAO 68 or PAG ISO 46	120
with air conditioning at the rear	08.00-06	R134a	850-910	PAG	PAO 68 or PAG ISO 46	120



Toyota

Prius (NHW11)	1999-04	R134a	450-550	PAG	PAO 68 or PAG ISO 46	120
Prius	2004-09	R134a	420-480	ND Oil 11	POE	n.a.
Prius 1,8HSD	2009-	R134a	470	ND Oil 11	POE	n.a.
Prius + (ZVW4)	05.2011-	R134a	470	ND11	POE	130
Prius + (ZVW4)	05.2011-	R1234yf	470	ND11	POE	130
RAV4	1994-00	R134a	650-750	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.
RAV4 (XA2)	06.00-06	R134a	480-540	PAG	PAO 68 or PAG ISO 46	120
RAV 4 III (ACA/ACE)	2006-12	R134a	400-460	Dens Oil 8	PAO 68 or PAG ISO 46	130
Starlet	1994-96	R134a	650	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.
Starlet	1996-99	R134a	550-650	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.
Supra	1993-97	R134a	650-750	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.
Urban Cruiser	2009-	R134a	370	ND Oil 8	PAO 68 or PAG ISO 46	65
Verso	2009-12	R134a	440	ND Oil 8	PAO 68 or PAG ISO 46	n.a.
Verso S	2011-	R134a	360	Dens Oil 8	PAO 68 or PAG ISO 46	60
Yaris 1,1i/1,3i/1,5i	1999-2002	R134a	400-460	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.
Yaris 1,1i/1,3i/1,5i	2002-06	R134a	380-440	ND8	PAO 68 or PAG ISO 46	n.a.
Yaris 1,4D	2002-06	R134a	410-470	ND8	PAO 68 or PAG ISO 46	n.a.
Yaris 1,0i/1,3i/1,4D	2006-	R134a	370	Dens Oil 8	PAO 68 or PAG ISO 46	n.a.
Yaris (P13)	2011-	R134a	360	Dens Oil 8	PAO 68 or PAG ISO 46	60
Yaris hybrid	2011-	R134a	435	ND Oil 11	POE	125

						 ml
Volkswagen						
Amarok	2010-	R134a	525	PAG	PAG 46 or PAO 68	140
Beetle	1998-11	R134a	700-750	G052 154 A2	PAO 68 or PAG ISO 46	120-150
Beetle (5C1) Sanden compressor PXE14/PX16	2012-	R134a	525	PAG	PAG 46 or PAO 68	110
Beetle (5C1) Denso compressor 6SEU14C	2012-	R134a	525	PAG	PAG 46 or PAO 68	90
Bora	1997-2005	R134a	775	G052 154 A2	PAO 68 or PAG ISO 46	135
Caddy II	1995-03	R134a	850-880	G052 154 A2	PAO 68 or PAG ISO 46	115
Caddy III Denso compressor 7SEU17C	03.04-09	R134a	500-550	PAG	PAO 68 or PAG ISO 46	130-150
Caddy III Sanden compressor	03.04-09	R134a	500-550	PAG	PAO 68 or PAG ISO 46	100-120
Caddy III Denso compressor 7SEU16C	03.04-09	R134a	500-550	G052 300 A2	PAO 68 or PAG ISO 46	180
Caddy III Zexel compressor	03.04-09	R134a	500-550	PAG	PAO 68 or PAG ISO 46	105-135
Caddy (2CX)	2010-	R134a	525			
Compressor: 1K0820808B/C/E/F				PAG 46	PAO 68 or PAG ISO 46	110
Compressor: 1K0820859E/M/S + 7H0820803D				PAG 46	PAO 68 or PAG ISO 46	140
Compressor: 1K0820859T				PAG 46	PAO 68 or PAG ISO 46	90
Compressor: 5K0820803C				PAG 46	PAO 68 or PAG ISO 46	75
Corrado	07.92-95	R134a	850-900	G052 154 A2	PAO 68 or PAG ISO 46	115
Crafter	2006-	R134a	740	G052 300 A2	PAO 68 or PAG ISO 46	180-200
Crafter with roof air conditioning	2006-	R134a	1125	G052 154 A2	PAO 68 or PAG ISO 46	200



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Eos (1F)	2006-2015	R134a				
Compressor: Sanden+Zexel			525	PAG 46	PAO 68 or PAG ISO 46	120
Compressor: Denso			525	PAG 46	PAO 68 or PAG ISO 46	90
E-Up!	2013-	R134a	380	G052 535 M2	PAO 68 AA1	150
Fox Delphi compressor	2005-11	R134a	425-475	G052 154 A2	PAO 68 or PAG ISO 46	150
Golf III/Vento/Cabrio - Harrison compressor	07.92-09.97	R134a	800-850	PAG	PAO 68 or PAG ISO 150	250
Sanden compressor	06.95-09.97	R134a	800-850	G052 154 A2	PAO 68 or PAG ISO 46	115
Golf IV/Bora	10.97-05	R134a	750-800	G052 154 A2	PAO 68 or PAG ISO 46	120-150
Golf V Denso compressor 7SEU17C	2003-08	R134a	500-550	G052 300 A2	PAO 68 or PAG ISO 46	130-150
Golf V Sanden compressor	2003-08	R134a	500-550	G052 300 A2	PAO 68 or PAG ISO 46	100-120
Golf V Zexel compressor	2003-08	R134a	500-550	G052 300 A2	PAO 68 or PAG ISO 46	105-135
Golf V Denso compressor 7SEU16C	2003-08	R134a	500-550	G052 300 A2	PAO 68 or PAG ISO 46	180
Golf VI Sanden/Delphi compressor	2008-	R134a	525	G052 300 A2	PAO 68 or PAG ISO 46	110
Golf VI Denso compressor 7SEU17C + ES34	2008-	R134a	525	PAG	PAG 46 or PAO 68	145
Denso compressor 6SEU14C	2008-	R134a	525	PAG	PAG 46 or PAO 68	90
Delphi compressor 6CVC140	2008-	R134a	525	PAG	PAG 46 or PAO 68	110
Golf VII Denso SES14C/Sanden 11PXE14	2012-	R134a	500	PAG	PAG 46 or PAO 68	80
Jetta Sanden PXE16 compressor	2005-10	R134a	500-550	PAG	PAO 68 or PAG ISO 46	110
Jetta Denso compressor SEU16C	2005-10	R134a	525	G052 300 A2	PAO 68 or PAG ISO 46	180
Jetta Zexel compressor	2005-10	R134a	525	G052 300 A2	PAO 68 or PAG ISO 46	120



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Jetta IV (162) Denso SES14C/Sanden 11PX14	2010-	R134a	500	PAG	PAG 46 or PAO 68	80
LT: Denso compressor	1996-03	R134a	750-800	PAG	PAO 68 or PAG ISO 46	175
LT: Sanden compressor	1996-03	R134a	750-800	PAG	PAO 68 or PAG ISO 46	135
Lupo: Sanden compressor	1998-00	R134a	700-750	G052 154 A2	PAO 68 or PAG ISO 46	105-135
Calsonic compressor	06.99-05	R134a	550-600	PAG	PAO 68 or PAG ISO 46	140-160
Denso compressor	11.00-05	R134a	550-575	PAG	PAO 68 or PAG ISO 46	140
Passat	07.92-97	R134a	1150-1200	G052 154 A2	PAO 68 or PAG ISO 46	115
Passat RHD - Denso compressor	1996-10.00	R134a	700-750	G052 300 A2	PAO 68 or PAG ISO 46	250
RHD - Zexel compressor	1996-10.00	R134a	700-750	G052 154/200 A2	PAO 68 or PAG ISO 46	250
Passat LHD - Denso compressor	1996-10.00	R134a	650-700	G052 300 A2	PAO 68 or PAG ISO 46	250
LHD - Zexel compressor	1996-10.00	R134a	650-700	G052 154/200 A2	PAO 68 or PAG ISO 46	250
Passat LHD/RHD - Denso compressor	10.00-05	R134a	600-625	G052 300 A2	PAG ISO 46 or PAO 68	250
Passat W8 LHD - Denso 7SEU16 compressor	05.01-05	R134a	500-525	G052 300 A2	PAG ISO 46 or PAO 68	190-210
Passat (3C) Sanden PXE16 compressor	2005-10	R134a	575-625	G052 154 A2	PAG ISO 46 or PAO 68	100-120
Zexel DSC17E compressor	2005-10	R134a	575-625	G052 200 A2	PAG ISO 46 or PAO 68	110-130
Passat (362/365) Sanden/Delphi compressor	2010-11.2011	R134a	600	PAG	PAG 46 or PAO 68	110
Denso compressor 6SEU14C	2010-11.2011	R134a	600	PAG	PAG 46 or PAO 68	90
Passat (362/365) Sanden/Delphi compressor	11.2011-	R134a	550	PAG	PAG 46 or PAO 68	110
Denso compressor 6SEU14C	11.2011-	R134a	550	PAG	PAG 46 or PAO 68	90



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Passat CC Sanden compressor PXE16	06.2008-	R134a	600	G052 154 A2	PAO 68 or PAG ISO 46	110
Passat CC Zexel compressor DSC17E	06.2008-	R134a	600	G052 200 A2	PAO 68 or PAG ISO 46	120
Passat CC Denso compressor 6SEU14	06.2008-	R134a	600	G052 300 A2	PAO 68 or PAG ISO 46	140
Passat CC Delphi compressor 6CVC140	06.2008-	R134a	600	G052 154 A2	PAO 68 or PAG ISO 46	110
Passat (B8) Denso/Delphi compressor	11.2014-	R134a	500	G 052 300 A2	PAO 68 or PAG ISO 46	110
Sanden compressor	11.2014-	R134a	500	G 052 154 A2	PAO 68 or PAG ISO 46	80
Phaeton 7SB-16/7SEU16C compressor	2002-14	R134a	575-625	G052 300 A2	PAG ISO 46 or PAO 68	190-210
Polo	1994-02	R134a	700-750	G052 154 A2	PAO 68 or PAG ISO 46	100
Polo Classic	1996-02	R134a	850-880	G052 154 A2	PAO 68 or PAG ISO 46	115
Polo estate	1997-02	R134a	850-880	G052 154 A2	PAO 68 or PAG ISO 46	120-150
Polo 1,2i/1,2i12V/1,4i/1,4TDI/1,6i/1,9SDI/1,9TDI/1,4FSi	2002-05.05	R134a	550-575	G052 300 A2	PAO 68 or PAG ISO 46	140
Polo compressor: 6Q0 820 803J	05.05-06.09	R134a	550	G052 300 A2	PAO 68 or PAG ISO 46	95
Polo Denso compressor SEU16C	05.05-06.09	R134a	550	G052 300 A2	PAO 68 or PAG ISO 46	180
Polo (6R) 1,2i /1,6TDi Denso 6SEU14/C compressor	06.2009-14	R134a	500	G 052 300 A2	PAO 68 or PAG ISO 46	90
Polo (6R) 1,2i /1,6TDi Delphi 6CVC140 compressor	06.2009-14	R134a	500	G 052 300 A2	PAO 68 or PAG ISO 46	110
Scirocco	2008-	R134a	525	PAG	PAO 68 or PAG ISO 46	90
Sharan	1995-04.00	R134a	950-1000	G052 154 A2	PAO 68 or PAG ISO 46	135
with air conditioning at the rear	1995-04.00	R134a	1350-1400	G052 154 A2	PAO 68 or PAG ISO 46	240
Sharan	04.00-10	R134a	700-750	PAG	PAO 68 or PAG ISO 46	135
with air conditioning at the rear	04.00-10	R134a	1050-1100	PAG	PAO 68 or PAG ISO 46	240



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Sharan (7N) Sanden/Valeo compressor	2010-	R134a	600	PAG	PAG 46 or PAO 68	110
with air conditioning at the rear	2010-	R134a	950	PAG	PAG 46 or PAO 68	210
Sharan (7N) Denso 7SEU17C compressor	2010-	R134a	600	PAG	PAG 46 or PAO 68	140
with air conditioning at the rear	2010-	R134a	950	PAG	PAG 46 or PAO 68	240
Tiguan Denso compressor 7SEU16C	2007-	R134a	660	G052 300 A2	PAO 68 or PAG ISO 46	180
Tiguan Sanden compressor PXE17	2007-	R134a	660	G052 154 A2	PAO 68 or PAG ISO 46	110
Touareg 7SEU16C compressor	2002-09	R134a	650-750	G052 300 A2	PAO 68 or PAG ISO 46	190-210
with air conditioning at the rear	2002-09	R134a	1000-1100	G052 300 A2	PAO 68 or PAG ISO 46	280-320
Touareg 7SEU17C compressor	2004-10	R134a	650-750	G052 300 A2	PAO 68 or PAG ISO 46	130-150
with air conditioning at the rear	2004-10	R134a	1000-1000	G052 300 A2	PAO 68 or PAG ISO 46	220-260
Touareg (7P5)	04.2010-	R134a	850	PAG	PAO 68	n.a.
with air conditioning at the rear	04.2010-	R134a	1150	PAG	PAO 68	n.a.
Touran Denso compressor 7SEU17C	2003-13	R134a	500-550	G052 300 A2	PAO 68 or PAG ISO 46	130-150
Touran Sanden compressor	2003-13	R134a	500-550	G052 300 A2	PAO 68 or PAG ISO 46	100-120
Touran Zexel compressor	2003-13	R134a	500-550	G052 300 A2	PAO 68 or PAG ISO 46	105-135
Touran Denso compressor 7SEU16C	2003-13	R134a	500-550	G052 300 A2	PAO 68 or PAG ISO 46	180
Transporter - Sanden compressor SD7H15	05.92-1995	R134a	950-1000	G052 100 A2	PAO 68 or PAG ISO 10	135
with air conditioning at the rear	05.92-1995	R134a	1350-1400	G052 100 A2	PAO 68 or PAG ISO 10	240
Long wheelbase with air conditioning at the rear	1993-95	R134a	1400-1450	G052 100 A2	PAO 68 or PAG ISO 10	240



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Transporter - Sanden compressor SD7V16	1995-03	R134a	950-1000	G052 154 A2	PAO 68 or PAG ISO 46	135
with air conditioning at the rear	1995-03	R134a	1350-1400	G052 154 A2	PAO 68 or PAG ISO 46	240
Long wheelbase with air conditioning at the rear	1995-03	R134a	1400-1450	G052 154 A2	PAO 68 or PAG ISO 46	240
Transporter 2.8i16V	2000-03	R134a	1125	PAG	PAO 68 or PAG ISO 46	135
with air conditioning at the rear	2000-03	R134a	1425	PAG	PAO 68 or PAG ISO 46	240
Transporter T5 (7H,7J) Denso 7SEU16C compressor	2003-10.09	R134a	600-700	G052 300 A2	PAO 68 or PAG ISO 46	190-210
with air conditioning at the rear	2003-10.09	R134a	950	G052 300 A2	PAO 68 or PAG ISO 46	300
Transporter T5 (7H,7J) Sanden SD7V16 compressor	2003-10.09	R134a	600-700	G052 154 A2	PAO 68 or PAG ISO 46	120-150
with air conditioning at the rear	2003-10.09	R134a	1000-1100	G052 154 A2	PAO 68 or PAG ISO 46	210-260
Transporter T5 (7H,/7J) Denso 7SEU16C compressor	10.2009-	R134a	650	G 052 300 A2	PAO 68 or PAG ISO 46	140
with air conditioning at the rear	10.2009-	R134a	950	G 052 300 A2	PAO 68 or PAG ISO 46	240
Transporter T5 (7H,/7J) Sanden SD7V16 compressor	10.2009-	R134a	650	G 052 154 A2	PAO 68 or PAG ISO 46	140
with air conditioning at the rear	10.2009-	R134a	950	G 052 300 A2	PAO 68 or PAG ISO 46	240
Transporter T5 (7H,/7J) Denso 6SEU14C/ 7SEU17C	10.2009-	R134a	525	G 052 300 A2	PAO 68 or PAG ISO 46	140
with air conditioning at the rear	10.2009-	R134a	825	G 052 300 A2	PAO 68 or PAG ISO 46	240



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Transporter T6	2015-	R134a	600			
with air conditioning at the rear			900			
Compressor: 7E0820803P/R				PAG 46	PAO 68 or PAG ISO 46	140
with air conditioning at the rear				PAG 46	PAO 68 or PAG ISO 46	220
Compressor: 7E0820803N/Q				PAG 46	PAO 68 or PAG ISO 46	140
with air conditioning at the rear				PAG 46	PAO 68 or PAG ISO 46	250
Compressor: 7E0820803M				PAG 46	PAO 68 or PAG ISO 46	60
with air conditioning at the rear				PAG 46	PAO 68 or PAG ISO 46	100
Compressor: 5Q0820803F				PAG 46	PAO 68 or PAG ISO 46	110
with air conditioning at the rear				PAG 46	PAO 68 or PAG ISO 46	150
Up Doowon DV9 compressor	2012-	R134a	380	PAG	PAG 46 or PAO 68	120

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240	1993-94	R134a	750	1161426-0	PAO 68 or PAG ISO 10	220
440/460/480 - Zexel compressor	1994-97	R134a	650	1161407-0	PAO 68 or PAG ISO 46	180-220
Sanden compressor	1994-97	R134a	650	1161407-0	PAO 68 or PAG ISO 46	160-200
850	1991-97	R134a	750-825	PAG	PAO 68	200
900-series 4-cylinder engine - Seiko compressor	1993-98	R134a	950	1161426-0	PAO 68 or PAG ISO 10	220
Sanden compressor	1993-98	R134a	950	1161425-2	PAO 68 or PAG ISO 10	240
Zexel compressor	1993-98	R134a	950	1161407-0	PAO 68 or PAG ISO 46	200



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900-series 6-cylinder engine - Seiko compressor	1993-97	R134a	900	1161426-0	PAO 68 or PAG ISO 10	220
Sanden compressor	1993-97	R134a	900	1161425-2	PAO 68 or PAG ISO 10	240
Zexel compressor	1993-97	R134a	900	1161407-0	PAO 68 or PAG ISO 46	200
C30	2007-	R134a	535	PAG	PAO 68 or PAG ISO 46	200
C70	1998-06	R134a	750-850	PAG	PAO 68 or PAG ISO 46	200
C70	2006-	R134a	535	PAG	PAO 68 or PAG ISO 46	200
S40/V40	1997-03	R134a	900	1161407-0	PAO 68 or PAG ISO 46	180
S40/V40 1,8 GDI	1998	R134a	750	1161407-0	PAO 68 or PAG ISO 46	120-140
S40/V40 1,8 GDI	1999-03	R134a	850	1161407-0	PAO 68 or PAG ISO 46	150-180
S40/V40 diesel	1996-98	R134a	900	1161407-0	PAO 68 or PAG ISO 46	135
S40/V40 diesel	1999-03	R134a	850	PAG	PAO 68 or PAG ISO 46	135
S40 II (MS)	2004-	R134a	500-570	ZXL 100 PG	PAO 68 or PAG ISO 46	200
S60	2000-05	R134a	1000	1161407-0	PAO 68 or PAG ISO 46	180
S60 with Komo (h)	2006-10	R134a	700	11616270	PAO 68 or PAG ISO 46	180
S60 II	04.2010-	R134a	820	PAG	PAO 68 or PAG ISO 46	n.a.
S70	1997-11.00	R134a	750-850	PAG	PAO 68 or PAG ISO 46	200
S80	1998-06	R134a	1000	1161407-0	PAO 68 or PAG ISO 46	180
S80	2006-	R134a	650	PAG	PAO 68 or PAG ISO 46	180
S/V90 - Zexel compressor	1997-99	R134a	900	1161407-0	PAO 68 or PAG ISO 46	200
Sanden compressor	1997-99	R134a	900	1161425-2	PAO 68 or PAG ISO 10	240















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V40	03.2012-	R134a	635	161627	PAO 68 or PAG ISO 46	n.a.	
V50	2004-	R134a	500-570	PAG	PAO or PAG ISO 46	200	
V60	2011-	R134a	820	PAG	PAO 68 or PAG ISO 46	n.a.	
V70 I	1997-2000	R134a	750-850	PAG	PAO 68 or PAG ISO 46	200	
V70 II	03.00-07	R134a	1000	PAG	PAO 68 or PAG ISO 46	180	
V70 III (BW)	2007-	R134a	820	PAG	PAO 68 or PAG ISO 46	180	
XC 60	2008-	R134a	820	1161627	PAO 68 or PAG ISO 46	180	
XC 70	2002-07	R134a	1000	1161407-0	PAO 68 or PAG ISO 46	180	
XC 70 II	2007-	R134a	800	PAG	PAO 68 or PAG ISO 46	180	
XC 90	2002-06	R134a	1000	1161627	PAO 68 or PAG ISO 46	180	
with air conditioning at the rear	2002-06	R134a	1300	1161627	PAO 68 or PAG ISO 46	200	
XC 90 with Komo (h)	2006-14	R134a	700	PAG	PAO 68 or PAG ISO 46	180	
with air conditioning at the rear	2006-14	R134a	1050	PAG	PAO 68 or PAG ISO 46	200	
XC 90 II Motor: B4204T11/T14T/20/T/23/T27/	09.2014-	R1234yf	650	31369128	PAO 68 AA1 or PAG YF	60	
with air conditioning at the rear	09.2014-	R1234yf	900	31369128	PAO 68 AA1 or PAG YF	90	
XC 90 II motor: B4204T35+B4204T28 with air conditioning at the rear	09.2014-	R1234yf	1000	31369128	PAO 68 AA1 or PAG YF	120	

Notes passenger cars (*)

1	Condenser with round pipes
2	Condenser with flat pipes
3	Condenser 16 mm
4	Condenser 23 mm
5	Rear engine
6	Front engine
7	Expansion valve, old type
8	Expansion valve, new type
9	See sticker in engine compartment
n.a.	Overall quantity for system not known or not specified by manufacturer – if appropriate, see sticker in the engine compartment or on the compressor
q	Quantity depends on version – see sticker in the engine compartment or on the compressor
w	Condenser 18 mm
e	Condenser 20 mm
f	Thickness of the condenser's flat pipe
g	Without oil radiator
h	Condenser module, dryer integrated in the condenser
i	Orga/manuf. no. /see information near A/B pillar
VIN = Vehicle Identification Number	

					 ml
DAEWOO/AVIA					
D75/D90 3,9D	2002-09	850	PAG	PAO 68	n.a.
DAF					
45	1996-2001	1000	SP 10	PAO 68 or PAG ISO 46	175
LF 45	2001-2011	1000	SP 10	PAO 68 or PAG ISO 46	175
LF 55	2001-2011	1000	SP 10	PAO 68 or PAG ISO 46	175
65	1990-1993	850	SP 10	PAO 68 or PAG ISO 46	135
CF 65	2001-2011	850	SP 10	PAO 68 or PAG ISO 46	175
75	1990-1993	900	SP 10	PAO 68 or PAG ISO 46	175
CF 75	2001-2011	850	SP 10	PAO 68 or PAG ISO 46	135
85	1991-1993	900	SP 10	PAO 68 or PAG ISO 46	175
CF 85	2001-2011	850	SP 10	PAO 68 or PAG ISO 46	135
95	1991-1993	1000	SP 10	PAO 68 or PAG ISO 46	175
95 XF	1997-2003	700	SP 10	PAO 68 or PAG ISO 46	135
XF 95	2002-	700	PAG	PAO 68 or PAG ISO 46	135
XF105	2005-	700	PAG	PAO 68 or PAG ISO 46	135
ISUZU					
N-series 5.2D	2005-08	450	ZXL 100PG	PAO 68 or PAG ISO 46	180

					
IVECO					
DAILY I	1996-1999	800	SP 20	PAO 68 or PAG ISO 10	135
DAILY I	1999-2002	720	SP 20	PAO 68 or PAG ISO 10	135
DAILY II	1999-2002	Combi:1200	SP 20	PAO 68 or PAG ISO 10	150
DAILY II	2003-05.06	720	SP 20	PAO 68 or PAG ISO 10	135
DAILY II	2003-05.06	Combi:1200	SP 20	PAO 68 or PAG ISO 10	150
DAILY III (F1A) external dryer	05.06-	720	ND8	PAO 68 or PAG ISO 46	n.a.
DAILY III (F1C) integrated dryer	05.06-	440	ND8	PAO 68 or PAG ISO 46	n.a.
EUROCARGO	1991-2001	2 condensers: 1600	SP 20	PAO 68 or PAG ISO 10	135
EUROCARGO	2001-5/2003	1020	PAG	PAO 68	n.a.
EUROCARGO	5/2003-	440	PAG	PAO 68	n.a.
EUROSTAR	1992-2000	1700	SP 20	PAO 68 or PAG ISO 10	135
EUROSTAR	1992-2000	Condenser at the side: 1900	SP 20	PAO 68 or PAG ISO 10	200
EUROSTAR	2000-2004	1700	ND-OIL 8	PAO 68 or PAG ISO 46	135
EUROTECH	1992-1999	1700	SP 20	PAO 68 or PAG ISO 10	135
EUROTECH	1992-1999	Condenser at the side: 1900	SP 20	PAO 68 or PAG ISO 10	200
EUROTECH	2000-2008	1700	ND-OIL 8	PAO 68 or PAG ISO 46	200
EUROTRAKKER	2000-2004	1700	SP 10	PAO 68 or PAG ISO 46	200
STRALIS AT/AD	2001-2012	700	ND-OIL 8	PAO 68 or PAG ISO 46	180
STRALIS AT/AD	2001-2012	Condenser at the side: 1400	ND-OIL 8	PAO 68 or PAG ISO 46	200
STRALIS HI-WAY	2012-	700	ND-Oil 8	PAO 68 or PAG ISO 46	n.a.

					 ml
IVECO					
TRAKKER	10.04-	700	Dens Oil 8	PAO 68 or PAG ISO 46	200
MAN					
F 2000	1995-1999	1150	(1)	(1)	180
F 2000	1999-	Round-pipe condenser: 1150	(1)	(1)	180
F 2000	1999-	Flat-pipe condenser: 950	(1)	(1)	180
L 2000	1995-1999	1250	(1)	(1)	180
L 2000	2000-	Round-pipe condenser: 1150	(1)	(1)	180
L 2000	2000-	Flat-pipe condenser: 950	(1)	(1)	180
M 2000 L	1995-1999	1250	(1)	(1)	180
M 2000 M	1995-1999	1150	(1)	(1)	180
M 2000	1999-	Round-pipe condenser: 1150	(1)	(1)	180
M 2000	1999-	Flat-pipe condenser: 950	(1)	(1)	180
M 90	1990-1996	1250	(1)	(1)	180
TG-A	2000-2009	900	Fuchs Reniso PAG 46	PAO 68 or PAG ISO 46	250
TGA with independent AC system	2000-09	1050	Fuchs Reniso PAG 46	PAO 68 or PAG ISO 46	280
TGL	2005-	650	PAG 46	PAO 68 or PAG ISO 46	150
TGM	2005-	750	PAG	PAO 68	n.a.
TGS	10.07-	950	PAG	PAO 68	n.a.
with independent AC system	10.07-	1050	PAG	PAO 68	n.a.















MAN

TGX	10.07-	950	PAG	PAO 68	n.a.
with independent AC system	10.07-	1050	PAG	PAO 68	n.a.

MERCEDES BENZ







ACTROS 1996	1997-2002	1100	ND-OIL 8	PAO 68 or PAG ISO 46	160
ACTROS 2003	2003-11.11	1100-1200	ND-OIL 8	PAO 68 or PAG ISO 46	175
ACTROS 2003	2003-11.11	1600 with independent AC system	ND-OIL 8	PAO 68 or PAG ISO 46	180
ACTROS	2012-	1080	ND-Oil 8	PAO 68 or PAG ISO 46	180
ACTTOS with stationary air-conditioning (code D6H)	2012-	1280	ND-Oil 8	PAO 68 or PAG ISO 46	210
AROCS	2013-	1080	ND-Oil 8	PAO 68 or PAG ISO 46	110
AROCS with stationary air-conditioning (Code D6H)	2013-	1280	ND-Oil 8	PAO 68 or PAG ISO 46	120
ANTOS	2012-	1080	ND-Oil 8	PAO 68 or PAG ISO 46	180
ANTOS with stationary air-conditioning (code D6H)	2012-	1280	ND-Oil 8	PAO 68 or PAG ISO 46	210
ATEGO I	1998-2004	1000	ND-OIL 8	PAO 68 or PAG ISO 46	160
ATEGO II (970 - 976) up to chassis No.: K956641	2004-	1200	ND-OIL 8	PAO 68 or PAG ISO 46	160
ATEGO II (970-976) from chassis No.: K956642	2004-	550	ND-Oil 8	PAO 68 or PAG ISO 46	160
ATEGO (967)	2013-	550	ND-Oil 8	PAO 68 or PAG ISO 46	n.a.
AXOR	2001-10.04	1100-1200	ND-OIL 8	PAO 68 or PAG ISO 46	175
AXOR II	10.04-	1100	PAG	PAO 68	n.a.
ECONIC	1998-2011	800	ND-OIL 8	PAO 68 or PAG ISO 46	160

					
MERCEDES BENZ					
T1/TN 407-410	1993-1995	700	A0019890803	PAO 68 or PAG ISO 46	120
T2/LN1 507-711	1993-1995	860	A0019890803	PAO 68 or PAG ISO 46	120
UNIMOG U300-500	2000-2004	1400	A0019890803	PAO 68 or PAG ISO 46	150
VARIO	1996-13	1225	A0019890803	PAO 68 or PAG ISO 46	160
ZETROS	2008-	1250	Ester Oil		n.a.
MITSUBISHI					
Canter	2006-	650	Sunpag 46	PAO 68 or PAG ISO 46	125
NISSAN					
ATLEON 110,140 Ch.-> 514109	1999-	900 ± 50	NISSAN TYPE S	PAO 68 or PAG ISO 46	260 ± 10
ATLEON 165,210 Ch.-> 514109	1999-	950 ± 50	NISSAN TYPE S	PAO 68 or PAG ISO 46	260 ± 10
ATLEON Ch. 514110 ->	1999-	750	NISSAN TYPE S	PAO 68 or PAG ISO 46	260 ± 10
CABSTAR E	1998-	750	NISSAN TYPE S	PAO 68 or PAG ISO 46	260 ± 10
CABSTAR	10.06-	300	PAG	PAO 68 or PAG ISO 46	150
RENAULT V.I.					
KERAX	1997-1999	1400	SANDEN SP 20	PAO 68 or PAG ISO 10	165
KERAX	2002-06	1550	SP20	PAO 68 or PAG ISO 10	165
KERAX	2007-	1250	PAG	PAO 68	175

					
RENAULT V.I.					
MAGNUM	1996-1999	1450	SANDEN SP 20	PAO 68 or PAG ISO 10	165
MAGNUM E.TECH	2000-	1450	SANDEN SP 20	PAO 68 or PAG ISO 10	165
MASCOTT 2,8 DdCi	1999-10	890	CLIM 488	PAO 68	135
MASCOTT 3,0D Dxi	2007-	750	PAG	PAO 68 or PAG ISO 46	135
Maxity 2,5D / 3,0D	2007-	300	PAG	PAO 68 or PAG ISO 46	150
MIDLINER M	1996-1999	1200	CLIM 488	PAO 68	165
MIDLINER S	1995-1999	1200	CLIM 488	PAO 68	165
MIDLUM	1999-	1200	CLIM 488	PAO 68	165
PREMIUM	1996-2006	1400	SANDEN SP 20	PAO 68 or PAG ISO 10	165
PREMIUM II	10.05-	1200	PAG	PAO 68	175
SCANIA					
93 H, M	1988-1996	800	PAG REF. 584077	PAO 68 or PAG ISO 46	175
94 C, D, G, L	1996-	1450	PAG REF. 584110	PAO 68 or PAG ISO 46	240
113 E, H, M	1991-1996	800	PAG REF. 584077	PAO 68 or PAG ISO 46	175
114 C, G, L	1998-	1450	PAG REF. 584110	PAO 68 or PAG ISO 46	240
124 C, G, L	1996-	1450	PAG REF. 584110	PAO 68 or PAG ISO 46	240
143 E, H, M	1991-1996	800	PAG REF. 584077	PAO 68 or PAG ISO 46	175
144 C, G, L	1995-	1450	PAG REF. 584110	PAO 68 or PAG ISO 46	240
164 C, G, L	2000-	1450	PAG REF. 584110	PAO 68 or PAG ISO 46	240



SCANIA						
G-series	2004-	1250	PAG	PAO 68 or PAG ISO 46	240	
P-series	2004-	1250	PAG	PAO 68 or PAG ISO 46	240	
R-series	2004-10	1250	PAG REF. 584110	PAO 68 or PAG ISO 46	240	
T 93 H	1990-1996	800	PAG REF. 584077	PAO 68 or PAG ISO 46	175	
T 94 C, G, L	1996-	1450	PAG REF. 584110	PAO 68 or PAG ISO 46	240	
T 113 E, H	1990-1996	800	PAG REF. 584077	PAO 68 or PAG ISO 46	175	
T 114 C, G, L	1998-	1450	PAG REF. 584110	PAO 68 or PAG ISO 46	240	
T 124 C, G, L	1996-	1450	PAG REF. 584110	PAO 68 or PAG ISO 46	240	
T 143 E, H	1991-1996	800	PAG REF. 584077	PAO 68 or PAG ISO 46	175	
T 144 C, G, L	1995-	1450	PAG REF. 584110	PAO 68 or PAG ISO 46	240	
Volvo						
F 10	1990-1993	1400	VOLVO 1160048	PAO 68 or PAG ISO 46	310	
F 12	1990-1993	1400	VOLVO 1160048	PAO 68 or PAG ISO 46	310	
F 16	1990-1993	1400	VOLVO 1160048	PAO 68 or PAG ISO 46	310	
FE	05.06-	1280	PAG	PAO 68	175	
FH	01.2003-	1150-1200	PAG	PAO 68	n.a.	
FH 12	1993-2001	1200	PAG SP 10	PAO 68 or PAG ISO 46	175	
FH 13	2005-	1250	1161425-2	PAO 68 or PAG ISO 10	175	
FH 16	1993-1999	1150	VOLVO 1161425-2	PAO 68 or PAG ISO 10	175	

					 ml
Volvo					
FL 6	1993-1999	1150	VOLVO 1161425-2	PAO 68 or PAG ISO 10	175
FL II	05.06-	1200	PAG	PAO 68	175
FM 7	1998-	1150	VOLVO 1161629	PAO 68 or PAG ISO 46	175
FM 9	2001-09	1200	VOLVO 1161629	PAO 68 or PAG ISO 46	175
FM 10	1999-	1150	VOLVO 1161629	PAO 68 or PAG ISO 46	175
FM 12	1998-09.05	1200	VOLVO 1161629	PAO 68 or PAG ISO 46	175
FM 13	09.05-	1250	1161425-2	PAO 68 or PAG ISO 10	175
FMX	2010-	1250	PAG	PAO 68 or PAG ISO 10	175
NH 12	1999-08	1250	1161629	PAO 68 or PAG ISO 46	175

NOTES COMMERCIAL VEHICLES

(1)	OE	Behr Hella Service
Compressor	Unicla: PAG OIL UNIDAP	PAO 68 or PAG ISO 46
Compressor	Zexel: PAG OIL ZEXEL ZXL 100PG	PAO 68 or PAG ISO 46
Compressor	Sanden: PAG OIL SANDEN SP 20	PAO 68 or PAG ISO 100
Compressor	Nippondenso: PAG OIL ND 8	PAO 68 or PAG ISO 46
Compressor	Kiki: FUCHS RENISO PAG 46"	PAO 68 or PAG ISO 46

Oil filling quantity 'n .a.' = quantity unknown or not specified by the manufacturer

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