

NRF - AIR CONDITIONING FILLING CHART (2020)



Brand/Model	Engine	Year	Info	Refrigerant	± gr	OE Oil	ISO Oil	± 10ml
<b>ALFA ROMEO</b>								
33 (905/907)	<b>D-Turbo</b>	05.83-09.94		R12	<b>900/1150 ±50</b>	<b>Suniso 46/Suniso 5GS</b>	PAG46	135
145/146 (930)	Petrol	07.94-01.01		R134a	700 ±25	SP-10	PAG46	240
145/146 (930)	Diesel	07.94-01.01		R134a	700 ±25	Ucon RL488	PAG150	235
145/146 (930)	Twin Spark/1.9 JTD	12.96-01.01		R134a	700 ±25	ND-9	PAG100	140
147 (937)		10.00-12.10		R134a	550 ±25	SP-10	PAG46	130
156 (932)	<b>2.4 JTD</b>	09.97-02.02		R134a	650 ±25	SP-20/ <b>ND-9</b>	PAG100	<b>130/150</b>
156 (932 Facelift)		03.02-05.06	Cond. with integrated dryer	R134a	500 ±25	SP-10	PAG46	130
159 (939)		06.05-12.12		R134a	460 ±30	ZXL100PG	PAG46	150
166 (936)		09.98-06.02		R134a	700 ±25	SP-10	PAG46	135
166 (936)		06.02-06.07	Cond. with integrated dryer	R134a	650 ±25	SP-10	PAG46	130
4C (960/961)		03.13-		R1234yf	370 ±20	DH-PSD1	PAG46yf	120
Brera/Spider (939)		01.06-05.11		R134a	460 ±30	ZXL100PG	PAG46	130
Giulia (952)		10.15-		R1234yf	535 ±20	ND-12	PAG46yf	130
Giulietta (940)		04.10-		<b>R134a/R1234yf</b>	<b>450/420 ±20</b>	<b>DH-PS/DH-PSD1</b>	<b>PAG46/PAG46yf</b>	130
GT (937)		11.03-09.10		R134a	500 ±40	SP-10	PAG46	130
GTV/Spider (916)	<b>V6</b>	05.98-04.05		R134a	725 ±25	<b>ND-9/SP-10</b>	<b>PAG100/PAG46</b>	<b>160/240</b>
Mito (955)		09.08-		R134a	450 ±40	ND-8/SP-10	PAG46	130
Stelvio (949)		12.16-		R1234yf	535 ±20	ND-12	PAG46yf	130
<b>ASTON MARTIN</b>								
DB7 Vantage	3.2	1994-04		R134a	900 ±30	SP-10	PAG46	See OE!
<b>AUDI</b>								
80 (8C2/8C5/8G7/B4)	<b>S2/RS2</b>	09.91-08.00		R134a	675/ <b>775 ±25</b>	ND-8/ZXL100PG	PAG46	250-300
100/200 (44/44Q/C3)		08.82-12.91		R134a	750 ±50	ND-8	PAG46	230
100/A6 (4A2/4A5/C4)		12.90-12.97		R134a	775 ±25	ND-8/ZXL100PG	PAG46	250-300
A1 (8X1/8XA/8XF/8XK)		05.10-10.18	Denso 6SEU14/Delphi CVC/ <b>Sanden PXE14 comp.</b>	<b>R134a/R1234yf</b>	<b>500/450 ±15</b>	ND-12/SP-A2	PAG46yf	<b>75/110</b>
A1 (GBA)		07.18-	Denso 6SES14/ <b>Sanden PXE14 comp.</b>	R1234yf	450 ±15	ND-12/SP-A2	PAG46yf	<b>75/110</b>
A2 (8Z0)		02.00-08.05	<b>2001.07 &gt;</b>	R134a	525/ <b>500 ±25</b>	ND-8	PAG46	180
A3/S3 (8L1)		09.96-06.03	<b>Sanden SD7V16/Zexel comp.</b>	R134a	775 ±25	<b>SP-10/ZXL100PG</b>	PAG46	<b>125/135</b>
A3/RS3 (8P1/8P7/8PA)		05.03-05.13	Denso 6SEU14/ <b>7SEU17 comp.</b>	R134a	525 ±25	ND-8	PAG46	<b>90/140</b>
A3/RS3 (8P1/8P7/8PA)		05.03-05.13	Denso 7SEU16+7SEU17 comp. 1K0820803F	R134a	525 ±25	ND-8	PAG46	180
A3/RS3 (8P1/8P7/8PA)		05.03-05.13	Delphi CVC/Sanden PXE/ <b>Zexel comp.</b>	R134a	525 ±25	DH-PS/SP-10/ZXL100PG	PAG46	<b>110/120</b>
A3/S3/RS3 (8V1/8V7/8VA/8VE/8VF/8VK/8VM/8VS)		04.12-	Denso 6SES14/Delphi CVC/ <b>Sanden PXE14 comp.</b>	<b>R134a/R1234yf</b>	<b>500/460 ±15</b>	ND-12/SP-A2	PAG46yf	<b>75/110</b>
A3 (8VA/8VF)	e-tron (1.4TFSi Hybrid)	05.14-	HVCC electric comp.	<b>R134a/R1234yf</b>	<b>500/450 ±15</b>	SP-A2	PAG46yf	120
A4/S4/RS4 (8D2/8D5/B5)	also RS4 05/00-09/01	11.94-10.97		R134a	675 ±25	ND-8	PAG46	250-300
A4/S4 (8D2/8D5/B5)		11.97-09.01	Modine/AWG/ <b>Showa</b> condenser	R134a	575/ <b>725 ±25</b>	ND-8	PAG46	250-300
A4/S4/RS4 (8E2/8E5/B6)		11.00-12.04	<b>&gt; 01.2004</b>	R134a	500 ±20	ND-8	PAG46	<b>120/180</b>
A4/S4/RS4 (8EC/8ED/B7)	<b>RS4</b>	11.04-06.08		R134a	500/ <b>440 ±20</b>	ND-8	PAG46	<b>120/130</b>

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A4/S4/RS4 (8K2/8K5/8KH/B8)		08.07-02.12		R134a	600 ±20	ND-8	PAG46	150
A4/S4/RS4 (8K2/8K5/8KH/B8)		03.12-12.15	Denso/Keihin/Showa cond.	R134a	550/630 ±15	ND-8	PAG46	110
A4 (8W2/8W5/8WH/B9)		05.15-	Denso 6SAS14/6SES14/Sanden PXE comp.	R134a/R1234yf	590/525 ±15	ND-12/SP-A2	PAG46yf	100/110
A5/S5/RS5 (8T3/8F7/8TA)	RS5 03/10-	05.07-02.12		R134a	600/570 ±20	ND-8	PAG46	150
A5/S5/RS5 (8T3/8F7/8TA)		03.12-01.17		R134a/R1234yf	550-630/520 ±15	ND-8/ND-12	PAG46/PAG46yf	110
A5/S5/RS5 (F53/F57/F5A)		06.16-	Denso 6SAS14/6SES14/Sanden PXE comp.	R134a/R1234yf	590/525 ±15	ND-12/SP-A2	PAG46yf	100/110
A6/S6/RS6 (4B2/4B5/C5)		04.97-08.98	20mm PF condenser	R134a	825 ±25	ND-8	PAG46	250-300
A6/S6/RS6 (4B2/4B5/C5)	4 cyl. / 6-cyl gasoline engines	08.98-04.99	20mm PF condenser	R134a	775 ±25	ND-8	PAG46	220-300
A6/S6/RS6 (4B2/4B5/C5)		08.98-01.05	18mm/20mm PF condenser	R134a	675/725 ±25	ND-8	PAG46	220-300
A6/S6/RS6 (4F2/4F5/C6)		05.04-03.11		R134a	530 ±20	ND-8	PAG46	130
A6/S6/RS6 (4G2/4G5/4GC/4GD/4GH/4GJ/C7)		11.10-09.18		R134a/R1234yf	570/530 ±20	ND-8/ND-12	PAG46/PAG46yf	120
A6 (4A2/4A5/C8/)		02.18-		R1234yf	See OE!	ND-12	PAG46yf	See OE!
A7 Sportback (4GA/4GF)		10.10-05.18		R134a/R1234yf	570/530 ±20	ND-8/ND-12	PAG46/PAG46yf	120
A7 Sportback (4KA)		10.17-		R1234yf	See OE!	ND-12	PAG46yf	See OE!
A8/S8 (4D2/4D8)		03.94-12.02		R134a	775 ±25	ND-8	PAG46	250
A8/S8 (4E2/4E8)		10.02-12.03		R134a	620 ±20	ND-8	PAG46	200
A8/S8 (4E2/4E8)		01.04-07.10		R134a	620 ±20	ND-8	PAG46	150
A8/S8 (4H2/4H8/4HC/4HL)		11.09-04.14	+ Rear evap.	R134a	780/930 ±20	ND-8	PAG46	130
A8/S8 (4H2/4H8/4HC/4HL)	4.2 TDI	11.09-04.14	+ Rear evap.	R134a	740/915 ±15	ND-8	PAG46	180
A8/S8 (4H2/4H8/4HC/4HL)	4.2 TDI	10.13-01.18	+ Rear evap.	R1234yf	700/890 ±15	ND-12	PAG46yf	110/130
A8 (4N2/4N8)		06.17-		R1234yf	See OE!	ND-12	PAG46yf	See OE!
Allroad (4BH/C5)		05.00-08.05		R134a	675 ±25	ND-8	PAG46	250
E-Tron		09.18-		R1234yf	See OE!	ND-12	PAG46yf	See OE!
Q2 (GAB)		06.16-	Sanden PXE14/Delphi CVC/Denso 6SES14 comp.	R1234yf	460 ±15	SP-A2/DH-PSD1/ND-12	PAG46yf	75/110
Q3 I (8UB/8UG)		06.11-	Sanden PXE14 comp./Denso 6SES14 comp.	R134a/R1234yf	520/530 ±15	SP-A2/ND-12	PAG46yf	75/110
Q3 II (F3B)		07.18-	Denso 6SES14/Delphi CVC/Sanden PXE14 comp.	R1234yf	See OE!	ND-12	PAG46yf	See OE!
Q5 I (8RB)		09.08-06.12	Denso 6SEU14 comp.	R134a	600 ±20	ND-8	PAG46	150
Q5 I (8RB)		07.12-	Denso 6SAS14C/6SES14C comp.	R134a/R1234yf	550/520 ±15	ND-8/ND-12	PAG46/PAG46yf	110
Q5 I (8RB)	Hybrid	06.11-06.12	Denso electric comp.	R134a	840 ±20	ND-11	POE	200
Q5 I (8RB)	Hybrid	07.12-	Denso electric comp.	R134a/R1234yf	900/See OE! ±15	ND-11/ND-14	POE/POEyf	200/See OE!
Q5 II (FYB)		05.16-	Denso 6SAS14/6SES14/Sanden PXE comp.	R134a/R1234yf	590/525 ±15	ND-12/SP-A2	PAG46yf	100/110
Q7 I (4LB)		03.06-08.15	+ Rear evap.	R134a	700/1050 ±50	ND-8	PAG46	150/250
Q7 II (4MB)		01.15-	+ Rear evap.	R134a	700/950 ±15	ND-8	PAG46	110/140
Q7 II (4MB)		01.15-	+ Rear evap.	R1234yf	680/850 ±15	ND-12	PAG46yf	110/140
Q7 II (4MB)	e-tron/Hybrid	08.15-	Sanden electric comp.	R134a/R1234yf	890/835 ±15	SP-A2	PAG46yf	290
Q8 (4MN)		02.18-		R1234yf	See OE!	ND-12	PAG46yf	See OE!
R8 (422/423)		04.07-07.15		R134a	650 ±20	ND-8	PAG46	150
R8 (4S3/4SP)		07.15-		R134a/R1234yf	820/740 ±15	ND-8/ND-12	PAG46/PAG46yf	150

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TT/TTS (8N3/8N9)		10.98-06.06	Cond. 20 mm/16 mm	R134a	775 ±25/650 ±20	SP-10	PAG46	135
TT/TTRS (8J3/8J9)		08.06-06.14	Denso 6SEU14/Delphi CVC/Sanden PXE14 comp.	R134a	525 ±25	ND-8/SP-10/RL-897	PAG46	90/110
TT/TTS/TTRS (FV3/FV9/FVP/FVR)		07.14-	Denso 6SES14/Delphi CVC/Sanden PXE14 comp.	R134a/R1234yf	500/460 ±15	ND-12/SP-A2	PAG46yf	75/110
<b>BMW</b>								
1-Series (E81/E82/E87/E88)		02.03-03.10	Denso 5SE/Calsonic CSE/Denso 6SBU+6SEU comp.	R134a	590 ±10	DH-PS/ND-8	PAG46	150/180
1-Series (E81/E82/E87/E88)		04.10-01.13	Denso 5SE/Calsonic CSE/Denso 6SBU+6SEU comp.	R134a	620 ±10	DH-PS/ND-8	PAG46	150/180
1-Series (E81/E82/E87/E88)		02.03-03.10	Denso 7SBU/Denso 7SEU comp.	R134a	590 ±10	ND-8	PAG46	120/180
1-Series (E81/E82/E87/E88)		04.10-01.13	Denso 7SBU/Denso 7SEU comp.	R134a	620 ±10	ND-8	PAG46	120/180
1-Series (F20/F21)		11.10-		R134a	500 ±10	ND-8	PAG46	150
2-Series Coupe/Cabrio (F22/F23)		10.12-	Denso 6SBU+6SEU/Denso 6SES+SAS+7SEU comp.	R134a/R1234yf	500 ±10	ND-12/SP-A2	PAG46yf	100/120
2-Series Tourer (F45/F46)		11.13-	HVCC comp.	R134a	500 ±10	SP-A2	PAG46	110
3-Series (E46)	Diesel/Petrol	02.98-12.07	Denso comp./Seiko Seiki SS120DL comp.	R134a	680 ±10/740 ±25	ND-8/SK-20	PAG46/PAG100	150
3-Series (E90/E91/E92/E93)		02.04-03.10	Denso 5SE/Calsonic CSE/Denso 6/7SBU+6/7SEU	R134a	590 ±10	DH-PS/ND-8	PAG46	150/180
3-Series (E90/E91/E92/E93)		04.10-12.13	Denso 5SE/Calsonic CSE/Denso 6/7SBU+6/7SEU	R134a	620 ±10	DH-PS/ND-8	PAG46	150/180
3-Series (F30/F31/F34/F35/F80)		03.11-		R134a	550 ±10	ND-8	PAG46	150
3-Series (F30/F35/F80)	ActiveHybrid	11.11-05.15	HVCC or Sanden comp.	R134a	740 ±10	SP-A2	PAG46yf	180
3-Series (G20)		11.18-		R1234yf	550 ±10	SP-A2	PAG46yf	100
4-Series (F32/F33/F36/F82/F83)		07.13-		R134a	550 ±10	ND-8	PAG46	150
5-Series (E39)		09.95-11.97	Denso 7SBU16C/Seiko Seiki SS120DL comp.	R134a	1225 ±25	ND-8/SK-20	PAG46/PAG100	180
5-Series (E39)		12.97-05.04	Denso 7SBU16C/Seiko Seiki SS120DL comp.	R134a	740 ±25	ND-8/SK-20	PAG46/PAG100	180
5-Series (E39)	520d/525d/530d	08.98-05.04	Denso 7SBU16C comp.	R134a	680 ±10	ND-8	PAG46	180
5-Series (E60/E61)	Diesel/Petrol	12.01-12.10		R134a	700/810 ±10	ND-8	PAG46	180
5-Series (F07/F10/F11)		01.09-02.17	Denso comp./HVCC comp.	R134a	850 ±10	ND-8/DH-PS	PAG46	110/150
5-Series (F10)	ActiveHybrid	12.11-10.16	HVCC or Sanden comp.	R134a	850 ±10	SP-A2	PAG46yf	180
5-Series (G30/G31/F90)		09.16-		R1234yf	550 ±10	SP-A2	PAG46yf	100
6-Series (E63/E64)		01.04-12.10		R134a	810 ±10	ND-8	PAG46	180
6-Series (F06/F12/F13)		11.10-		R134a	850 ±10	ND-8	PAG46	150
6-Series (G32)		06.17-		R1234yf	550 ±10	SP-A2	PAG46yf	See OE!
7-Series (E38)		06.94-11.01	1997.08 >	R134a	1210/680 ±15	ND-8	PAG46	160
7-Series (E38)	750 iL	12.94-11.01	Denso 10PA17C comp./ + Rear evap.	R134a	1210/1400 ±15	ND-8	PAG46	180/250
7-Series (E65/E66/E67)		11.01-12.09		R134a	810 ±10	ND-8	PAG46	180
7-Series (F01/F02/F03/F04)		02.08-12.15	+ Rear evap.	R134a	850/1000 ±10	ND-8	PAG46	150
7-Series (F01/F02/F03/F04)	ActiveHybrid	09.09-05.15	HVCC or Sanden comp.	R134a	975 ±10	SP-A2	PAG46yf	180
7-Series (G11/G12)		10.14-	+ Rear evap.	R1234yf	550/800 ±10	SP-A2	PAG46yf	110
8-Series (E31)		04.90-12.99	Denso comp./Seiko Seiki comp.	R134a	1550 ±25	ND-8/SK-20	PAG46/PAG100	180
8-Series (G14/G15)		07.18-		R1234yf	550 ±10	SP-A2	PAG46yf	100
i3 (I01)	Electric/Range Extender	08.13-	HVCC electric comp./+ Heat pump	R134a/R1234yf	750/970 ±10	SP-A2	PAG46yf	230
i8 (I12)	Hybrid	03.14-	HVCC electric comp.	R134a	630 ±10	SP-A2	PAG46yf	230

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X1 (E84)		03.09-06.15		R134a	590 ±10	ND-8	PAG46	150
X1 (F48)		11.14-	HVCC comp.	R134a	480 ±10	SP-A2	PAG46	110
X2 (F39)		11.17-		R1234yf	See OE!	SP-A2	PAG46yf	See OE!
X3 (E83)	Diesel/Petrol	01.03-12.11		R134a	680/740 ±10	ND-8	PAG46	150
X3 (F25)/X4 (F26)		09.10-03.18	Denso comp./HVCC comp.	R134a	425 ±10	ND-8/SP-A2	PAG46	110/150
X3 (G01)/X4 (G02)		07.17-		R1234yf	See OE!	SP-A2	PAG46yf	See OE!
X5 (E53)		05.00-02.07		R134a	440 ±10	ND-8	PAG46	180
X5/X6 (E70/E71/E72)		02.06-07.14		R134a	700 ±10	ND-8	PAG46	150
X5/X6 (F15/F16/F85/F86)	2.0 Diesel B47D20	08.13-07.18	HVCC comp.	R134a	675 ±10	ND-8/SP-A2	PAG46yf	110/150
X5 (F15)	xDrive 40e/ActiveHybrid	08.15-07.18	HVCC electric comp.	R134a/R1234yf	675 ±10	SP-A2	PAG46yf	150/180
X5 (G05)/X7 (G07)		08.18-		R1234yf	See OE!	SP-A2	PAG46yf	See OE!
Z3 (E36)		10.95-06.03	Denso comp. + Tube&Fin cond.	R134a	1000 ±25	ND-8	PAG46	100-140
Z3 (E36)		10.95-06.03	Denso comp. + PF cond.	R134a	825 ±25	ND-8	PAG46	100-140
Z3 (E36)		10.95-06.03	Seiko Seiki comp./ + Tube&Fin cond.	R134a	1000 ±25	SK-20	PAG100	150
Z3 (E36)		10.95-06.03	Seiko Seiki comp./ + PF cond.	R134a	825 ±25	SK-20	PAG100	150
Z4 (E85/E86)		02.03-12.09		R134a	740 ±10	ND-8	PAG46	150
Z4 (E89)		02.09-08.16		R134a	580 ±10	ND-8	PAG46	150
Z4 (G29)		11.18-		R1234yf	See OE!	SP-A2	PAG46yf	See OE!
Z8 (E52)		06.00-06.03		R134a	710 ±25	ND-8	PAG46	180
<b>CADILLAC (GM)</b>								
ATS		02.13-		R1234yf	See OE!	SP-A2	PAG46yf	See OE!
BLS		04.06-07.09		R134a	680 ±20	PAG46	PAG46	135
CTS		03.02-12.07		R134a	590 ±10	PAG46	PAG46	140
CTS		01.08-		R134a	550 ±10	PAG46	PAG46	110
Escalade		10.06-12.14	+ Rear evap.	R134a	740/1140 ±10	PAG46	PAG46	200/280
Escalade		09.14-	+ Rear evap.	R1234yf	See OE!	SP-A2	PAG46yf	See OE!
SRX		09.03-12.09	+ Rear evap.	R134a	600/800 ±10	PAG46	PAG46	170/200
SRX		01.09-	+ Rear evap.	R134a	570/800 ±10	PAG46	PAG46	170/200
STS		09.04-12.07		R134a	650 ±10	PAG46	PAG46	140
XLR		09.03-09.09		R134a	620 ±10	PAG46	PAG46	140
<b>CHEVROLET (GM)</b>								
Aveo/Kalos (T200/T250/T300)		05.05-	Delphi SP10 comp./V5 comp.	R134a	520 (RHD 600) ±20	RL244/RL488	PAG100/150	150/200
Bolt EV		10.15-02.19		R1234yf	725 ±25	ND-11	POE	120
Captiva (C100/C140)	Petrol/Diesel	06.06-02.15	LHD only	R134a	660/520 ±20	DH-PS	PAG46	150
Cruze (J300)		05.09-		R134a	650 ±20	DH-PS	PAG46	120-150
Epica (KL1)		01.05-2011		R134a	800 (RHD 860) ±20	RL488	PAG150	220
Evanda (KLAL)		08.02-12.05		R134a	730 ±20	RL488	PAG150	265
HHR		01.06-		R134a	410 ±25	DH-PS	PAG46	120
Lacetti/Nubira		01.05-11.10		R134a	640 (RHD 680) ±20	RL488	PAG150	220

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Malibu		01.12-		R134a/R1234yf	680/600 ±10	DH-PS/DH-PSD1	PAG46/PAG46yf	150
Matiz		03.05-03.10		R134a	330 (RHD 380) ±20	DH-PS	PAG46	110
Orlando		12.10-		R134a	650 ±20	DH-PS	PAG46	120-150
Spark		05.05-		R134a	330 (RHD 380) ±20	DH-PS	PAG46	110
Spark (M300)		03.10-		R134a	450 ±25	DH-PS	PAG46	100
Tacuma/Rezzo		03.05-		R134a	700 ±20	DH-PS	PAG46	220
Trax		12.12-		R134a/R1234yf	570 ±20	DH-PS/DH-PSD1	PAG46/PAG46yf	70
Volt		04.11-05.15		R134a	950 ±25	ND-11	POE	180
<b>CHRYSLER (USA)</b>								
300C (LE/LX)		09.04-10.10		R134a	740 ±20	ND-8	PAG46	180
300M (LR)		07.98-09.04		R134a	710 ±20	ND-8	PAG46	150
Crossfire		07.03-12.07		R134a	850 ±20	ND-8	PAG46	120
Delta		08.11-		R134a	450 ±40	PAG46	PAG46	130
Grand Voyager V (RT)		10.07-	+ Rear evap.	R134a	800/1100 ±20	ND-8	PAG46	120/190
Neon II		08.99-2002		R134a	765 ±20	ND-8	PAG46	180
PT Cruiser (PT)	2.2 CRD	06.00-12.10		R134a	710/850 ±20	ND-8	PAG46	160/180
PT Cruiser Convertible	2.4i	03.04-03.08		R134a	510 ±20	ND-8	PAG46	180
Sebring (JR)	2.4 Turbo	04.01- 06.07		R134a	640/540 ±20	ND-8	PAG46	See OE!
Sebring (JS)		07.07-12.11		R134a	570 ±20	ND-8	PAG46	See OE!
Voyager III (GS)/Voyager IV (RG/RS)		01.95-12.08	+ Rear evap.	R134a	960/1360 ±20	ND-8	PAG46	150/220
Ypsilon		05.11-		R134a/R1234yf	500 ±40	ND-8/ND-12	PAG46/PAG46yf	50
<b>CITROEN</b>								
Berlingo I (M/MF)		07.96-12.11		R134a	575 ±25	SP-10	PAG46	135
Berlingo II (B9)		04.08-06.18		R134a/R1234yf	450 ±20/425 ±10	SP-10/SP-A2	PAG46/PAG46yf	135
Berlingo III (K9)		06.18-	Cond. 19 dm³/Sanden comp./+ Rear evap	R1234yf	450/775 ±10	SP-A2	PAG46yf	60
Berlingo III (K9)		06.18-	Cond. 23 dm³/Jianshe comp./ + Rear evap.	R1234yf	650/950 ±10	VC200YF	PAG100yf	135
C1 (PM/PN)	1.0i/1.4 HDi	06.05-09.14		R134a	450/500 ±25	ZXL200PG	PAG100	80
C1 II (PA/PS)		04.14-		R134a/R1234yf	380 ±20/350 ±10	VC200yf	PAG100yf	80
C2 (JM)		09.03-11.19	> VIN 10041/VIN 10042 >	R134a	625/500 ±25	SP-10	PAG46	135
C3 I-/Picasso (FC/FN)		02.02-10.09	Manual trans./Automatic trans.	R134a	450/400 ±25	SP-10	PAG46	140
C3 II (SC)-/Picasso (SH)		02.09-		R134a/R1234yf	450 ±25/400 ±10	SP-A2	PAG46yf	135
C3 III (SX)		07.16-		R1234yf	425 ±10	HD100	PAG100yf	80
C3 Pluriel (HB)		05.03-	> VIN 10041/VIN 10042 >	R134a	625/500 ±25	SP-10	PAG46	135
C3 Aircross II (2R/2C)		06.17-		R1234yf	425 ±10	ND-12	PAG46yf	80
C4 I (LA/LC/LR)		11.04-07.11	> VIN 10553/VIN 10554 >	R134a	670/450 ±25	SP-10	PAG46	135
C4 II (B7/NC)		11.09-	Denso comp./Sanden comp.	R134a/R1234yf	425 ±10	ND-12/SP-A2	PAG46yf	110/135
C4 Picasso I/Grand Picasso I (UA/UD)		10.06-12.13	+ Rear evap.	R134a	450/675 ±25	SP-10	PAG46	135/200
C4 Picasso II/Grand Picasso II		02.13-	+ Rear evap.	R134a/R1234yf	450/625 ±10	SP-A2	PAG46yf	90/140
C4 Aircross		04.12-		R134a	500 ±20	PAG46	PAG46	80

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Brand/Model	Engine	Year	Info	Refrigerant	± gr	OE Oil	ISO Oil	± 10ml
C4 Cactus		09.14-	Sanden comp./Denso comp.	R1234yf	425 ±10	SP-A2/ND-12	PAG46yf	80/90
C4 Spacetourer (3D)/Grand C4 Spacetourer (3A/3E)		04.18-	Sanden comp./Denso comp.	R1234yf	450 ±10	SP-A2/ND-12	PAG46yf	80/110
C5 I (DC/DE)	2.0 HDi	03.01-08.04	Sanden comp./Delphi comp.	R134a	675 ±25	SP-10/RL488	PAG46/PAG150	135/265
C5 II (RC/RE)	2.2 HDi/2.7 HDi	08.04-		R134a	625/525 ±25	SP-10	PAG46	135
C5 III (RD/RW)		02.08-	From Euro 5 >	R134a	625/525 ±25	SP-10	PAG46	135
C5 III (RD/RW)		02.08-		R1234yf	475 ±10	SP-A2	PAG46yf	135
C5 Aircross		11.18-	Sanden comp./Denso comp.	R1234yf	See OE!	SP-A2/ND-12	PAG46yf	See OE!
C6 (TD)	3.0 HDi	09.05-12.12		R134a	525/625 ±25	SP-10	PAG46	135
C8 (EA/EB)	2.0 HDi/2.2 HDi	07.02-		R134a	675/540 ±25	SP-10	PAG46	135
C-Crosser (EP)		02.07-		R134a	500 ±20	SP-10	PAG46	80
C-Elysée		11.12-		R134a/R1234yf	450 ±20/420 ±10	VC200YF	PAG100yf	110
C-Zero Electric		10.10-		R134a	325 ±20	MA68EV	POE	100
Dispatch/Jumpy I&II (BU/BS/BT/BY/BV/BW/BX/BZ/U6U)		01.01-12.06		R134a	950 ±25	SP-10	PAG46	135
Dispatch/Jumpy I&II (BU/BS/BT/BY/BV/BW/BX/BZ/U6U)		2002-12.06	Long wheel base/ + Rear evap.	R134a	1000 ±50	SP-10	PAG46	180
Dispatch/Jumpy III (VF7)		01.07-	+ Rear evap.	R134a	540/850 ±25	SP-10	PAG46	135/200
Dispatch/Jumpy III (VF7)		01.07-	Long wheel base/ + Rear evap.	R134a	950 ±25	SP-10	PAG46	200
Dispatch/Jumpy IV/Spacetourer (V)		04.16-	Cond. 19 dm³/Sanden comp./ + Rear evap.	R1234yf	450/775 ±10	SP-A2	PAG46yf	60/See OE!
Dispatch/Jumpy IV/Spacetourer (V)		04.16-	Cond. 23 dm³/Jianshe comp./ + Rear evap.	R1234yf	650/975 ±10	VC200YF	PAG100yf	135/See OE!
DS3		11.09-07.15	Denso comp./Sanden comp.	R134a/R1234yf	450/425 ±10	SP-A2/ND-12	PAG46yf	90/110
DS4/DS5		03.11-07.15	Denso 5SEL12/Denso 6SEL16 comp.	R134a/R1234yf	450/425 ±10	ND-8/ND-12	PAG46/PAG46yf	90/120
DS4/DS5		04.11-07.15	Sanden SD6C12/Sanden SD7C16 comp.	R134a/R1234yf	450/425 ±10	SP-10/SP-A2	PAG46/PAG46yf	110/135
Jumper I/Relay I (244)		04.02-06.06	+ Rear evap.	R134a	550/700 ±25	SP-10	PAG46	135/200
Jumper I/Relay I (244)		04.02-06.06	+ Roof top unit	R134a	1400 ±25	SP-10	PAG46	200
Jumper II/Relay II (250)		04.06-	+ Rear evap.	R134a	550/950 ±25	SP-10	PAG46	150/200
Jumper II/Relay II (250)		04.06-	+ Roof top unit	R134a	1600 ±25	SP-10	PAG46	200
Nemo (AA)		02.08-		R134a	500 ±25	SP-10	PAG46	135
Saxo (S0/S1)		10.97-06.03		R134a	775 ±25	SP-10	PAG46	135
Xantia (X1/X2)		03.93-04.03		R134a	825 ±25	RL488	PAG150	250-280
Xantia (X1/X2)	3.0i V6	01.97-04.03		R134a	725 ±25	SP-10	PAG46	135
Xsara (N0/N1/N2)		04.97-03.10		R134a	See OE!	SP-10	PAG46	135
Xsara Picasso (N68)		12.99-06.12		R134a	650 ±25	SP-10	PAG46	135
<b>DACIA</b>								
Dokker I (KE)		11.12-	Valeo DKV-11R/Calsonic CR12SC comp.	R134a	475 ±35	ZXL200PG/DH-PR	PAG100	80/150
Dokker II Pickup		07.18-		R1234yf	See OE!	SP-A2	PAG46yf	See OE!
Duster I		04.10-	Valeo DKV-11R/Calsonic CR12SC comp.	R134a	475 ±35	ZXL200PG/DH-PR	PAG100	80/150
Duster I		04.10-	Sanden comp./ + Rear evap.	R134a	475/880 ±35	SP-10	PAG46	135/200
Duster II		10.17-		R1234yf	See OE!	SP-A2	PAG46yf	See OE!
Logan I/MCV/Van/Pick Up (FS/KS/LS/US)		08.04-	Cond. with integrated dryer/+ Sanden comp.	R134a	475/750 ±35	SP-10	PAG46	135

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Brand/Model	Engine	Year	Info	Refrigerant	± gr	OE Oil	ISO Oil	± 10ml
Logan I/MCV/Van/Pick Up (FS/KS/LS/US)		08.04-	Cond. with integrated dryer/+ Calsonic comp.	R134a	475/750 ±35	DH-PR	PAG100	150
Lodgy I (JS)		03.12-	Valeo DKV-11R/Calsonic CR12SC comp.	R134a	475 ±35	ZXL200PG/DH-PR	PAG100	80/150
Lodgy I (JS)		03.12-	Sanden comp./ + Rear evap.	R134a	1000 ±35	SP-10	PAG46	200
Logan II/MCV		10.12-	Valeo DKV-11R/Calsonic CR12SC comp.	R134a	475 ±35	ZXL200PG/DH-PR	PAG100	80/150
Logan III/MCV		10.12-	Valeo VCS-14IC comp.	R134a	475 ±35	ZXL100PG	PAG46	100
Sandero I		06.08-10.12	Cond. with integrated dryer	R134a	475/750 ±35	SP-10	PAG46	135
Sandero II		10.12-	Valeo DKV-11R/Calsonic CR12SC comp.	R134a	480 ±35	ZXL200PG/DH-PR	PAG100	80/150
Sandero II		10.12-	Valeo VCS-14IC comp.	R134a	480 ±35	ZXL100PG	PAG46	100
<b>DAEWOO</b>								
Evanda (KLAL)		08.02-12.05		R134a	730 ±20	RL488	PAG150	265
Kalos (KLAS)		09.02-12.04		R134a	600 (RHD 650) ±20	RL488	PAG150	220
Korando (KJ)		01.99-2006		R134a	700 ±50	RL100	PAG100	See OE!
Lacetti/Nubira (KLAN/J200)		07.03-2010		R134a	640 (RHD 680) ±20	RL488	PAG150	220
Lanos (KLAT)		05.97-12.03		R134a	720 ±20	RL488	PAG150	200-265
Leganza (KLAV)		06.97-04.04		R134a	830 ±20	RL488	PAG150	265
Matiz (KLYA/M100/M150)		09.98-12.04		R134a	550 ±25	RL244	PAG46	150
Matiz (M200/M250)		01.05-06.10		R134a	330 (RHD 380) ±20	RL244	PAG46	110
Musso (FJ)		07.98-2003		R134a	700 ±50	RL100	PAG100	See OE!
Nubira (KLAJ/J100)		04.97-2003		R134a	750 (RHD 800) ±20	RL488	PAG150	235-265
Rezzo/Tacuma (KLAU/U100)		09.00-2008		R134a	750 (RHD 820) ±20	RL488	PAG150	220
<b>DAIHATSU</b>								
Charade V (L2 )		03.03-05.11		R134a	380 ±30	ND-8	PAG46	100
Charade VI		05.11-01.13		R134a	360 ±30	ND-8	PAG46	100
Cuore VII (L251)		03.03-04.07		R134a	380 ±30	ND-8	PAG46	80
Cuore VIII (L275/L285)		04.07-12.12		R134a	300 ±30	ND-8	PAG46	60
Copen (L880/L881)		09.03-09.12		R134a	250 ±30	ND-8	PAG46	60
Materia (M4)		10.06-12.12		R134a	350 ±30	ND-8	PAG46	70
Sirion I (M1)	1.0/1.3i	09.00-04.05		R134a	380/340 ±30	ND-8	PAG46	80
Sirion II (M3)		01.05-06.13		R134a	300 ±30	ND-8	PAG46	80
Terios (J1)		10.97-10.05		R134a	400 ±30	ND-8	PAG46	80
Terios (J2)		11.05-12.12		R134a	350 (RHD 300) ±10	ND-8	PAG46	80
Trevis		06.06-03.09		R134a	300 ±30	ND-8	PAG46	60
YRV (M2)		02.01-07.05		R134a	380 ±30	ND-8	PAG46	80
<b>DODGE (CHRYSLER)</b>								
Avenger		06.07-12.14		R134a	450 ±30	ND-8	PAG46	110
Caliber		06.06-		R134a	510 ±30	ND-8	PAG46	130
Caravan (RG)		02.00-12.07	+ Rear evap.	R134a	960/1360 ±20	ND-8	PAG46	150/220
Charger		06.05-12.10		R134a	740 ±30	ND-8	PAG46	180
Charger		01.11-		R134a	See OE!	ND-8	PAG46	See OE!

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Brand/Model	Engine	Year	Info	Refrigerant	± gr	OE Oil	ISO Oil	± 10ml
Durango		01.11-		R134a	See OE!	SP-20	PAG100	See OE!
Grand Caravan		06.07-		R134a	See OE!	SP-20	PAG100	See OE!
Journey	2.4i/2.0CRD	06.08-	+ Rear evap.	R134a	620/910 ±30	ND-8	PAG46	110/170
Ram Pickup (DJ/DS)		10.08-		R134a	See OE!	ND-8	PAG46	See OE!
Nitro		09.06-12.12		R134a	540 ±30	ND-8	PAG46	140
<b>FIAT</b>								
124 Spider (348)		03.16-		R134a/R1234yf	420/360 ±10	PSD1	PAG46yf	100
500 (312)		10.07-		R134a/R1234yf	450 ±40/450 ±10	ND-12	PAG46yf	80
500L (351/352)		09.12-		R134a/R1234yf	450/420 ±20	PSD1	PAG46yf	130
500X (334)		09.14-		R1234yf	500 ±20	ND-12	PAG46yf	130
Barchetta (183)		04.95-05.05		R134a	600 ±40	ND-9	PAG100	160
Bravo II (198)		11.06-		R134a	500 ±40	ND-8	PAG46	130
Croma II (194)		06.05-12.11		R134a	730 ±40	SP-10	PAG46	130
Doblo I (223)		03.01-03.10		R134a	600 ±40	ND-8	PAG46	130
Doblo II /Pratico (263)		02.10-	Denso comp./Sanden comp.	R134a	450 ±20	ND-8/SP-10	PAG46	80/120
Ducato II (244)		04.02-07.06	+ Rear evap.	R134a	550/700 ±25	SP-10	PAG46	135/200
Ducato II (244)		04.02-07.06	+ Roof top unit	R134a	1400 ±25	SP-10	PAG46	200
Ducato III (250/290)		07.06-	+ Rear evap.	R134a	550/950 ±25	SP-10	PAG46	150/200
Ducato III (250/290)		07.06-	+ Roof top unit	R134a	1600 ±25	SP-10	PAG46	200
Fiorino/Qubo (225)		11.07-		R134a	500 ±25	SP-10	PAG46	130
Freemont (345)		08.11-	+ Rear evap.	R134a	620/910 ±30	ND-8	PAG46	110/170
Fullback Pickup (502/503)		01.16-		R134a	520 ±20	DH-PR	PAG100	150
Idea/Linea (110/323/350)		12.03-2010	Denso comp./Sanden comp.	R134a	500 ±40	ND-8/SP-10	PAG46	130
Multipla (186)	1.6i/1.9 JTD	04.99-06.10	Delphi comp./Sanden comp.	R134a	450 ±20	RL488/SP-10	PAG46/PAG150	135/265
Panda II (169)		09.03-08.12		R134a	500 ±40	ND-8	PAG46	80
Panda III (312/319)		02.12-		R134a	450 ±40	ND-8	PAG46	70
Punto (188)		09.99-10.02	Denso SCS/Denso TV12SC comp.	R134a	550 ±40	ND-9/ND-8	PAG100/PAG46	70/150
Punto (188)		11.02-03.12	Denso SCS/Denso TV12SC comp.	R134a	500 ±40	ND-9/ND-8	PAG100/PAG46	70/150
Punto/Punto Evo/Grande Punto (199)		04.08-02.12		R134a	500 ±40	ND-8	PAG46	130
Punto (199)		03.12-	Denso comp./Sanden comp.	R134a	440 ±30	ND-8/SP-10	PAG46	90/120
Scudo I (220)		01.01-12.06		R134a	950 ±25	SP-10	PAG46	135
Scudo II (270/272)		01.07-	Short wheel base/ + Rear evap.	R134a	540/850 ±25	SP-10	PAG46	135/180
Scudo II (270/272)		01.07-	Long wheel base/ + Rear evap.	R134a	540/950 ±25	SP-10	PAG46	135/180
Sedici (FY)		06.06-10.14		R134a	430 ±20	PAG46	PAG46	90
Stilo (192)		10.01-08.08	Denso comp./Sanden comp.	R134a	500 ±40	ND-8/SP-10	PAG46	80/120
Strada (278)		10.10-		R134a	500 ±40	ND-8	PAG46	70
Talento (296)		06.16-	Zexel comp./+ Rear evap.	R134a	590/880 ±20	ZXL100PG	PAG46	120/220
Talento (296)		06.16-	Zexel comp./+ Rear evap.	R1234yf	540/850 ±20	VC100yf	PAG46yf	120/220
Tipo/Egea(356)		10.15-		R134a/R1234yf	450/420 ±20	PSD1	PAG46yf	100



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Brand/Model	Engine	Year	Info	Refrigerant	± gr	OE Oil	ISO Oil	± 10ml
Ulysse (179)		08.02-07.11		R134a	600 ±25	SP-10	PAG46	135
<b>FIKSKER</b>								
Karma	Hybrid	02.12-		R1234yf	600 ±10	ND-11	POE	See OE!
<b>FORD</b>								
B-Max (JK)	1.5 TDCi	10.12-		R134a/R1234yf	550 ±10	SP-A2	PAG46yf	120
B-Max (JK)	1.0 Ecob./1.6 TDCi/1.4 i&1.6 Ti	10.12-		R134a/R1234yf	600/650 ±10	SP-A2	PAG46yf	120
C-Max (DM2)		02.07-09.10		R134a	600 ±15	PAG46	PAG46	200
C-Max II/Grand C-Max (DXA/CB7,CEU)	1.0 & 1.6 Ecoboost/1.5 TDCi	04.10-	> 02.2015 / 03.2015 >	R134a/R1234yf	540/530 ±15	SP-A2	PAG46yf	120/150
C-Max II/Grand C-Max (DXA/CB7,CEU)	1.6 i (+CNG) & 1.6 Ti	03.15-	> 02.2015 / 03.2015 >	R134a/R1234yf	530/600 ±15	SP-A2	PAG46yf	120/150
C-Max II/Grand C-Max (DXA/CB7,CEU)	1.6 TDCi	12.10-	> 07.2012 / 08.2012 >	R134a/R1234yf	460/530 ±15	SP-A2	PAG46yf	110/150
C-Max II/Grand C-Max (DXA/CB7,CEU)	1.5 Ecoboost/2.0 TDCi	04.10-	> 02.2015 / 03.2015 >	R134a/R1234yf	530/625 ±15	SP-A2	PAG46yf	120/150
C-Max III/Grand C-Max (DXA/CB7,CEU)	2.0 Energi (Hybrid)	01.15-		R134a/R1234yf	740 ±15	SP-A2	PAG46yf	150
Ecosport	1.0 Ecoboost	10.13-	> 08.2017	R134a/R1234yf	700/630 ±15	SP-A2	PAG46yf	120
Ecosport	1.0 Ecoboost	10.13-	09.2017 >	R134a/R1234yf	700/750 ±15	SP-A2	PAG46yf	120
Ecosport	1.5 Ti/1.5 TDCi	10.13-		R134a/R1234yf	625/560 ±15	SP-A2	PAG46yf	120
Ecosport	1.5 TDCi EcoBlue	11.17-		R1234yf	475 ±15	SP-A2	PAG46yf	120
Fiesta IV (JA/JB/JV)		08.95-08.03		R134a	740 ±10	PAG46	PAG46	200
Fiesta V (JH/JD)		11.01-12.10	1.2mm cond. tube/3.0mm cond. tube	R134a	470/650 ±15	SP-10	PAG46	200/210
Fiesta V (JH/JD)	1.6 TDCi	11.04-09.09		R134a	520 ±15	PAG46	PAG46	200
Fiesta VI (CB1/CCN)		06.08-	12mm condenser/16mm condenser	R134a/R1234yf	390/520 ±10	SP-A2	PAG46yf	120
Fiesta VI (CB1/CCN)	1.6 TDCi	06.08-	12mm condenser/16mm condenser	R134a/R1234yf	450/570 ±10	SP-A2	PAG46yf	120
Fiesta VII	1.5 ST Ecoboost	01.17-		R1234yf	500 ±10/550 ±20	SP-A2	PAG46yf	120
Focus I (DAW/DBW/DFW/DNW)		10.98-03.05		R134a	740 ±15	PAG46	PAG46	200
Focus II/Focus C-Max (CAP)		07.04-09.12		R134a	600 ±15	PAG46	PAG46	200
Focus III	1.0 Ecoboost/1.6 TDCi	07.10-		R134a/R1234yf	540/530 ±15	SP-A2	PAG46yf	150
Focus III	1.6 Ecoboost/1.6 Ti (+LPG)	07.10-		R134a/R1234yf	530/600 ±15	SP-A2	PAG46yf	150
Focus III	1.5 Ecoboost/2.0 TDCi	07.10-	> 08.2014 / 09.2014 >	R134a/R1234yf	530/625 ±15	SP-A2	PAG46yf	110/150
Focus III	2.0 GTDI+GDI/2.0 ST/2.3 RS	08.11-		R134a/R1234yf	600 ±15	SP-A2	PAG46yf	120/200
Focus III	Electric	07.13-		R134a	600 ±15	SE-10y	POE	155
Focus IV (HN/HM/HP)	2.0 EcoBlu	01.18-		R1234yf	480 ±15	SP-A2	PAG46yf	80/120
Fusion (JU)		08.02-12.12	1.2mm cond. tube/3.0mm cond. tube	R134a	470/650 ±15	PAG46	PAG46	200/210
Galaxy I (WGR)	2.0i/2.3i 16V	03.95-03.00	Visteon comp./ + Rear evap.	R134a	975/1375 ±25	PAG46	PAG46	200/240
Galaxy I (WGR)	2.8i V6/1.9 TDI	03.95-03.00	Sanden comp./ + Rear evap.	R134a	975/1375 ±25	SP-10	PAG46	135/240
Galaxy I (WGR) Facelift	2.0i/2.3i 16V	04.00-05.06	Visteon comp./ + Rear evap.	R134a	725/1075 ±25	PAG46	PAG46	200/240
Galaxy I (WGR) Facelift	2.8i V6/1.9 TDI	04.00-05.06	Sanden comp./ + Rear evap.	R134a	725/1075 ±25	SP-10	PAG46	135/240
Galaxy II (WM/WA6)/S-Max (WS/WA6)		05.06-06.15	+ Rear evap.	R134a	600/850 ±15	SP-10	PAG46	200/250
Galaxy III (CK)/S-Max (CJ)		01.15-	+ Rear evap.	R134a	565/965 ±15	SP-10	PAG46	150/240
Galaxy III (CK)/S-Max (CJ)		01.15-	+ Rear evap.	R1234yf	510/910 ±15	SP-A2	PAG46yf	150/240
Ka I (RB)		09.96-11.08		R134a	650 ±15	PAG46	PAG46	200

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Brand/Model	Engine	Year	Info	Refrigerant	± gr	OE Oil	ISO Oil	± 10ml
Ka II (RU8)		10.08-		R134a	500 ±40	ND-8	PAG46	80
Ka+ (FK/UK/TK)		06.16-		R1234yf	600 ±10	SP-A2	PAG46yf	120
Kuga I		02.08-11.12		R134a	600 ±15	PAG46	PAG46	200
Kuga II (DM2)	<b>1.5 TDCI</b>	03.13-		R134a/R1234yf	<b>570/680 ±15</b>	SP-A2	PAG46yf	<b>130/140</b>
Maverick II/III		02.01-06.07		R134a	850 ±25	PAG46	PAG46	265
Mondeo I (BNP/GBP)/Mondeo II (BAP/BFP/BNP)		02.93-09.00		R134a	740 ±15	PAG46	PAG46	200
Mondeo III (B4Y/B5Y/BWY)		10.00-03.07	16mm PF cond./30mm cond.	R134a	700/820 ±15	PAG46	PAG46	200
Mondeo IV (BA7)	<b>2.5 Duratec (V15)</b>	03.07-01.15	<b>+ Automatic transmission (AWF21)</b>	R134a	520/590 ±10	PAG46	PAG46	200
Mondeo V (CD/CE/CF)		09.12-		R134a/R1234yf	570 ±15	SP-A2	PAG46yf	150
Ranger (ER/EQ/R)		10.99-06.06		R134a	550 ±15	FD46XG	PAG46	180
Ranger (ET)		05.06-07.12		R134a	478 ±15	FD46XG	PAG46	180
Ranger (TKE)		04.11-	> 09.2013 / <b>10.2013</b> >	R134a	650/560 ±25	DH-PS	PAG46	150
Street Ka (RL2)		05.03-07.05		R134a	650 ±15	PAG46	PAG46	200
Transit/Tourneo Connect (P65/P70/P80)		06.02-12.13		R134a	905 ±15	PAG46	PAG46	200
Transit Bus+Box+Custom/Tourneo Custom		04.12-	<b>+ Rear evap.</b>	R134a	740/1150 ±15	PAG46	PAG46	160/240
Transit Bus+Box+Custom/Tourneo Custom		04.12-	<b>+ Rear evap.</b>	R1234yf	740/1050 ±15	ND-12	PAG46yf	160/240
Transit/Tourneo Connect+Courier	1.0i Ecoboost/1.5&1.6TDCi	09.13-	<b>+ Rear evap.</b>	R134a/R1234yf	575/800 ±15	ND-12	PAG46yf	<b>120/200</b>
Transit/Tourneo Connect+Courier	1.6i Ecoboost	09.13-	<b>+ Rear evap.</b>	R134a/R1234yf	675/875 ±15	ND-12	PAG46yf	130/220
Transit/Tourneo Courier	<b>1.6 TDCi</b>	02.14-		R134a/R1234yf	620 ±15/675 ±10	ND-12	PAG46yf	120
Transit Bus+Box (E)		06.94-07.00	<b>+ Rear evap.</b>	R134a	900/1200 ±25	PAG46	PAG46	200/250
Transit Bus (FD/FB/FC/FS/FM/FN/FS/FZ)		01.00-05.06	<b>+ Rear evap.</b>	R134a	740/1550 ±20	PAG46	PAG46	200/250
Transit Box (FA)		08.00-05.06	Box type delivery /Refrigerator	R134a	990 ±20/2650 ±50	PAG46	PAG46	280/600
Transit Box (FA) +Bus (FD/FB/FC/FS/FM/FN/FS/FZ)		04.06-08.14	<b>+ Rear evap.</b>	R134a	750/1400 ±20	PAG46	PAG46	280/640
<b>HONDA</b>								
Accord VI (CF8/CG/CH/CK/CL)		03.97-06.03	Sanden comp./Denso comp.	R134a	525 ±25	SP-10/ND-8	PAG46	130/160
Accord VII (CL/CM/CN)	Petrol/Diesel	09.02-05.08		R134a	525/475 ±25	SP-10/ND-8	PAG46	140/165
Accord VIII (CP/CU/CW)	Petrol/Diesel	06.08-06.15		R134a	475 ±25	SP-10/ND-8	PAG46	80/110
Civic VII (EM2/EU/EP/ES/ET/EV)		03.99-02.06		R134a	525 ±25	SP-10	PAG46	140
Civic VIII (FA/FD/FK/FN)	<b>1.3i Hybrid</b>	09.05-02.12		R134a	465/425 ±25	SP-10/SE-10y	PAG46/POE	80/140
Civic IX (FB/FG/FK)		02.12-12.17	Sanden comp./Denso comp.	R134a/R1234yf	380 ±25	SP-A2/ND-12	PAG46yf	65/80
Civic X (FC/FK)		08.16-		R1234yf	400 ±25	ND-12	PAG46yf	100
CR-V II (RD)		09.01-03.07		R134a	500 ±25	SP-10	PAG46	140
CR-V III (RE)		06.06-10.12		R134a	465 ±25	SP-10/ND-8	PAG46	110
CR-V IV (RM)		10.12-	Sanden comp./Denso comp.	R134a	410 ±25	SP-10/ND-8	PAG46	80/85
CR-V V (RT/RW)		12.16-		R1234yf	See OE!	ND-12	PAG46yf	See OE!
CR-Z (ZF)	1.5i Hybrid	06.10-		R134a	475 ±25	SP-10	PAG46	90
FR-V (BE)		08.04-10.09	Denso comp./Sanden+Keihin comp.	R134a	555 ±25	ND-8/SP-10	PAG46	100/130
HR-V (GH)		03.99-09.05		R134a	625 ±25	SP-10	PAG46	130
HR-V (RU)		01.15-		R1234yf	420 ±25	ND-14	POE	75

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Brand/Model	Engine	Year	Info	Refrigerant	± gr	OE Oil	ISO Oil	± 10ml
Insight (ZE)	1.0i Hybrid	04.00-12.06		R134a	525 ±25	SP-10	PAG46	140
Insight II (ZE)	1.3i Hybrid	04.09-		R134a	475 ±25	SP-10	PAG46	80
Jazz II (GD/GE2/GE3)		03.02-10.08		R134a	425 ±25	SP-10	PAG46	95
Jazz III (GE/GG/GP)		10.07-2015		R134a	395 ±25	SP-10	PAG46	85
Jazz IV (GK)		09.15-		R1234yf	400 ±25	ND-14	POE	75
Legend III (KA)		02.96-09.04		R134a	725 ±25	ND-8	PAG46	140
Legend IV (KB)		05.06-12.12		R134a	475 ±25	ND-8	PAG46	120
S2000 (AP)		03.99-06.09	> 09.2003 / <b>10.2003</b> >	R134a	625 <b>575</b> ±25	SP-10	PAG46	130/ <b>140</b>
Stream (RN)		05.01-2007	<b>+ Rear evap.</b>	R134a	525/ <b>725</b> ±25	ND-8	PAG46	140/ <b>170</b>
<b>HYUNDAI</b>								
Accent II/Excel II (LC)		09.99-11.05		R134a	600 ±25	FD46XG	PAG46	150
Accent III (MC)		11.05-11.10		R134a	500 ±25	FD46XG	PAG46	150
Accent IV/Solaris IV (RB)		11.10-2017		R134a	420 ±25	FD46XG	PAG46	120
Accent V/Solaris V (HC/YC)		01.17-		R1234yf	See OE!	SP-A2	PAG46yf	See OE!
Atos (MX)		02.98-12.08		R134a	500 ±25	FD46XG	PAG46	150
Coupe (GK)/Tiburon Coupe		01.01-08.09		R134a	600 ±25	FD46XG	PAG46	150
Elantra (XD)		06.00-07.06		R134a	680 ±25	FD46XG/ND-8	PAG46	140
Getz (TB)		09.02-12.10		R134a	500 ±25	ND-8	PAG46	120
Grand Santa Fé		06.13-	<b>+ Rear evap.</b>	R134a	600/ <b>800</b> ±25	FD46XG	PAG46yf	120/ <b>210</b>
Grand Santa Fé		06.13-	<b>+ Rear evap.</b>	R1234yf	550/ <b>750</b> ±25	FD46XG	PAG46yf	120/ <b>210</b>
Grandeur (TG)		04.05-12.11		R134a	500 ±25	FD46XG	PAG46	150
H-1/H200/Starex (A1)		10.97-12.07	<b>+ Rear evap.</b>	R134a	650/ <b>1200</b> ±25	PAG46	PAG46	180/ <b>210</b>
H-1/H300/Starex/Satellite/Montana/i800/iLoad/iMax		02.08-	<b>+ Rear evap.</b>	R134a	650/ <b>850</b> ±25	PAG46	PAG46	150/ <b>210</b>
H350		04.15-	<b>+ Rear evap.</b>	R134a	700/ <b>1150</b> ±25	FD46XG	PAG46	140/ <b>280</b>
i10 (PA)		12.07-12.13		R134a	450 ±25	FD46XG	PAG46	120
i10 (BA/IA)		08.13-		R134a/R1234yf	410 ±10	FD46XG/SP-A2	PAG46/PAG46yf	100
i20 (PB/PBT)		08.08-12.15		R134a	450 ±25	FD46XG	PAG46	120
i20 (GB/IB/PB)		11.14-		R134a/R1234yf	470 ±25	FD46XG/SP-A2	PAG46/PAG46yf	110
i30 (FD)		10.07-06.12		R134a	500 ±25	FD46XG	PAG46	150
i30 (GD)		12.11-12.16		R134a/R1234yf	500 ±25	FD46XG/SP-A2	PAG46/PAG46yf	150
i30 (PD)		11.16-		R134a/R1234yf	500 ±25	FD46XG/SP-A2	PAG46/PAG46yf	110
i40 (VF)		07.11-		R134a	550 ±25	FD46XG	PAG46	120
Ioniq (AE)	1.6 Hybrid	03.16-		R134a/R1234yf	600 ±25	RB100EV	POE	130
Ioniq (AE)	Electric	03.16-	HVCC electric comp./ <b>+ Heat pump</b>	R134a	550/ <b>1000</b> ±25	RB100EV	POE	130/ <b>180</b>
ix20 (JC)		11.10-		R134a	550 ±25	FD46XG	PAG46	100
ix35 (EL/LM)/Tucson II (EL/LM)		08.09-07.15		R134a	510 ±25	FD46XG	PAG46	120
ix55		09.08-12.11	<b>+ Rear evap.</b>	R134a	700/ <b>900</b> ±25	FD46XG	PAG46	150/ <b>210</b>
Kona/Kauai (OS)		06.17-		R134a/R1234yf	500/ <b>450</b> ±25	FD46XG/SP-A2	PAG46/PAG46yf	120
Matrix (FC)		06.01-08.10		R134a	575 ±25	FD46XG	PAG46	150

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Brand/Model	Engine	Year	Info	Refrigerant	± gr	OE Oil	ISO Oil	± 10ml
Nexo	Fuel Cell Hydrogen	03.18-		R1234yf	See OE!	RB100EV	POE	See OE!
Santa Fe I (SM)/Santa Fe II (CM)		11.00-12.12	+ Rear evap.	R134a	600/850 ±25	FD46XG	PAG46	150/210
Santa Fe III (DM)		09.12-2018	+ Rear evap.	R134a	600/800 ±25	FD46XG	PAG46	120/210
Santa Fe III (DM)		09.12-2018	+ Rear evap.	R1234yf	550/750 ±25	SP-A2	PAG46yf	120/210
Santa Fe IV (TM)		02.18-	+ Rear evap.	R1234yf	See OE!	SP-A2	PAG46yf	See OE!
Sonata/Sonica IV (EF)		03.98-11.04		R134a	680 ±25	FD46XG	PAG46	150
Sonata/Sonica V (NF)/Sonata/Sonica VI (YF)		01.05-12.15		R134a	550 ±20	FD46XG	PAG46	150
Terracan (HP)		12.01-12.06		R134a	850 ±25	PAG46	PAG46	180
Trajjet (FO)		03.00-07.08	+ Rear evap.	R134a	650/850 ±25	PAG46	PAG46	150/210
Tucson (JM)	Petrol/Diesel	08.04-03.10		R134a	510 ±25	ND-8	PAG46	125/200
Tucson III (TL)		06.15-		R134a	510 ±25	FD46XG	PAG46	120
Veloster (FS)		03.11-2018		R134a	420 ±25	PAG46	PAG46	120
XG (XG)		12.98-12.05		R134a	680 ±25	FD46XG	PAG46	150
<b>INFINITI</b>								
EX - Series/QX50		10.08-2018		R134a	550 ±25	DH-PS	PAG46	150
FX - Series/QX70		07.08-		R134a	550 ±25	DH-PS	PAG46	150
G - Series		09.07-		R134a	550 ±25	DH-PS	PAG46	150
M - Series (Y51)		03.10-		R134a	See OE!	PAG46	PAG46	150
Q30		11.15-		R1234yf	See OE!	PAG46yf	PAG46yf	See OE!
Q50		04.13-		R1234yf	See OE!	PAG46yf	PAG46yf	See OE!
Q60		10.13-		R1234yf	See OE!	PAG46yf	PAG46yf	See OE!
Q70 (Y51)		03.13-		R1234yf	See OE!	PAG46yf	PAG46yf	See OE!
QX30		04.16-		R1234yf	630 ±10	ND-12	PAG46yf	120
<b>ISUZU</b>								
D-Max I/Rodeo (TFR/TFS)		05.02-06.12		R134a	650 ±25	ZXL200PG	PAG100	180
D-Max II (TFR/TFS)		06.12-		R134a	See OE!	See OE!	See OE!	See OE!
Trooper III	Petrol	04.00-08.04		R134a	750 ±25	ZXL200PG	PAG100	150
Trooper III	Diesel	05.98-08.04		R134a	750 ±25	ZXL100PG	PAG46	150
<b>JAGUAR / DAIMLER</b>								
E-Pace (X540)		09.17-		R1234yf	See OE!	ND-12	PAG46yf	See OE!
F-Type (X152)		10.12-		R1234yf	700 ±10	SP-A2	PAG46yf	80
F-Pace (X761)		09.15-		R1234yf	550 ±10	SP-A2	PAG46yf	80
I-Pace (X590)		02.18-		R1234yf	See OE!	SE-10y	POE	See OE!
S-Type (X200)		01.99-12.08	> VIN M45254/VIN M45255 >	R134a	800/750 ±25	PAG46	PAG46	210
S-Type (X200)	2.7 D	06.04-10.07	VIN M45255 >	R134a	700 ±50	PAG46	PAG46	200
XE (X760)		03.15-		R1234yf	550 ±10	SP-A2	PAG46yf	80
XF (X250)	3.0 Diesel+5.0 Petrol	03.08-04.15	VIN R47154 >	R134a	750 ±25	SP-10	PAG46	110/130
XF (X260)		05.15-		R1234yf	550 ±10	SP-A2	PAG46yf	80
XJ (X308)		07.97-05.03		R134a	675 ±25	ND-8	PAG46	180

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Brand/Model	Engine	Year	Info	Refrigerant	± gr	OE Oil	ISO Oil	± 10ml
XJ (X350)		05.03-03.09	+ Rear evap.	R134a	650/800 ±25	ND-8	PAG46	140/180
XJ (X351)		10.09-		R134a/R1234yf	700 ±25	SP-A2	PAG46yf	110
XK 8 (X100)		03.96-12.06		R134a	650 ±50	PAG46	PAG46	180
XK (X150)		03.06-07.14	> VIN B32752/VIN B32753 >	R134a	700 ±25	ND-8/SP-10	PAG46	110/130
X-Type (X400)		06.01-12.09	> VIN E88031/VIN E88032 >	R134a	810 ±15/575 ±25	PAG46	PAG46	220
X-Type (X400)	Diesel	07.03-12.09		R134a	735 ±25	PAG46	PAG46	200
<b>JEEP (CHRYSLER)</b>								
Cherokee (KJ)		09.01-01.08		R134a	740 ±25	SP-20	PAG100	240
Cherokee/Liberty (KK)		01.08-		R134a	510 ±15	PAG46	PAG46	150
Cherokee (KL)		11.13-		R134a/R1234yf	540/510 ±15	ND-12	PAG46yf	130
Compass (MK49)		08.06-		R134a	595 ±20	ND-8	PAG46	110
Compass (MP/M6)		01.16-		R134a/R1234yf	565/480 ±15	ND-12	PAG46yf	90
Grand Cherokee I (ZJ/ZG)		09.91-04.99		R134a	775 ±25	ND-8	PAG46	230
Grand Cherokee II (WJ/WG)		10.98-09.05		R134a	730 ±25	ND-8	PAG46	220
Grand Cherokee III (WH/WK)/Commander (XK/XH)		10.04-12.10	+ Rear evap.	R134a	680/960 ±15	ND-8	PAG46	130/210
Grand Cherokee IV (WK/WK2)		11.10-		R134a	625 ±15	PAG46	PAG46	130
Patriot (MK74)		02.07-12.17		R134a	595 ±15	ND-8	PAG46	130
Renegade (B1/BU)		07.14-	Denso 6SBU14C/Delphi 6CVC comp.	R1234yf	450 ±15	ND-12/DH-PSD1	PAG46yf	90/120
Wrangler II (TJ)		08.96-12.07		R134a	560 ±25	ND-8	PAG46	180
Wrangler III (JK)		04.07-		R134a	510 ±15	ZXL100PG	PAG46	150
<b>KIA</b>								
Carens II (FJ)		07.02-08.06		R134a	680 ±25	ND-8	PAG46	200
Carens III (UN)		09.06-03.13		R134a	450 ±25	ND-8	PAG46	120
Carens IV		03.13-		R134a/R1234yf	560 ±15	FD46XG/SP-A2	PAG46/PAG46yf	100
Carnival III/Sedona II (GQ)		10.01-09.07		R134a	1000 ±50	PAG46	PAG46	200
Carnival III/Sedona III (VQ)		06.06-12.10		R134a	800 ±25	ND-8	PAG46	130
Carnival III/Sedona III (VQ)		01.11-03.13	+ Rear evap.	R134a	650/950 ±25	ND-8	PAG46	120/200
Cee'd/Pro Cee'd (ED)		12.06-03.13		R134a	500 ±25	FD46XG	PAG46	150
Cee'd/Pro Cee'd (JD)		04.12-02.18		R1234yf	500 ±25	SP-A2	PAG46yf	110
Ceed/Proceed (CD)		03.18-		R1234yf	480 ±25	SP-A2	PAG46yf	110
Cerato I (LD)	Diesel	04.04-12.09		R134a	500 ±25	ND-8	PAG46	130/200
Cerato II (TD)		01.09-		R134a	480 ±25	FD46XG	PAG46	120
Joice		02.00-2003		R134a	725 ±25	PAG46	PAG46	210
Magentis I (GD/MS)		05.01-10.05		R134a	680 ±25	FD46XG	PAG46	150
Magentis II (MG)		11.05-12.08		R134a	500 ±25	PAG46	PAG46	150
Niro	Hybrid	09.16-		R1234yf	650 ±25	RB100EV	POE	130
Opirus (GH)		09.03-2010		R134a	650 ±25	PAG46	PAG46	150
Optima I (TF)		06.10-10.15		R134a	550 ±25	FD46XG	PAG46	100
Optima II (JF)		09.15-		R134a/R1234yf	570/470 ±25	ND-8/ND-12	PAG46/PAG46yf	80

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Brand/Model	Engine	Year	Info	Refrigerant ± gr	OE Oil	ISO Oil	± 10ml
Optima II (JF)	Hybrid	09.16-		R1234yf 650 ±25	RB100EV	POE	130
Picanto (BA/SA)		04.04-04.11		R134a 450 ±25	FD46XG	PAG46	120
Picanto (TA)		05.11-03.17		R134a 380 ±25	PAG46	PAG46	100
Picanto (JA)		03.17-		R1234yf 400 ±25	SP-A2	PAG46yf	100
Pregio (TB)		10.97-2005		R134a 825 ±25	PAG46	PAG46	200
Rio I (DC)		08.00-02.05		R134a 675 ±25	PAG46	PAG46	150
Rio II (JB)		03.05-12.11		R134a 500 ±25	ND-8	PAG46	120
Rio III (UB)		09.11-12.16	> 12.2013 / 01.2014 >	R134a 420/470 ±25	PAG46	PAG46	120
Rio IV (FB/YB/SC)		01.17-		R1234yf 450 ±25	SP-A2	PAG46yf	100
Sephia/Shuma (FB)		03.96-08.04		R134a 700 ±25	PAG46	PAG46	120
Sorento I (JC)		08.02-11.09		R134a 600 ±25	ND-8	PAG46	200
Sorento II (XM)		11.09-12.15	+ Rear evap.	R134a 600/750 ±25	FD46XG	PAG46	120/180
Sorento III (UM)		01.15-	+ Rear evap.	R1234yf 650/800 ±25	SP-A2	PAG46yf	120/180
Soul I (AM)		02.09-12.14		R134a 550 ±25	PAG46	PAG46	100
Soul II (PS)		02.14-		R1234yf 550 ±25	SP-A2	PAG46yf	110
Soul II (PS)	Electric	02.14-	HVCC electric comp./+ Heat pump	R1234yf 550/900 ±25	RB100EV	POE	180
Sportage I (K00)		04.94-08.04		R134a 700 ±25	PAG46	PAG46	130
Sportage II (JE/KM)	2.0i/2.7 V6/2.0 CRDi	09.04-06.10		R134a 510 ±25	ND-8	PAG46	130/200
Sportage III (SL)		07.10-12.15		R134a 510 ±25	FD46XG	PAG46	120
Sportage IV (QL/QLE)		09.15-		R1234yf 600 ±25	SP-A2	PAG46yf	100
Stinger (CK)		06.17-		R1234yf See OE!	SP-A2	PAG46yf	See OE!
Stonic (YB)		07.17-		R1234yf 450 ±25	SP-A2	PAG46yf	120
Venga (YN)		02.10-		R134a 550 ±25	PAG46	PAG46	100
<b>LANCIA</b>							
Delta III (844)		08.08-08.14		R134a 450 ±40	ND-8	PAG46	130
Flavia Convertible (JS)		03.12-12.14		R134a See OE!	PAG46	PAG46	See OE!
Lybra (839)	1.6i	07.99-10.05		R134a 700 ±25	RL 488	PAG150	265
Lybra (839)	1.8i/1.9 JTD/2.0i	07.99-10.05		R134a 700 ±25	SP-20	PAG100	135
Lybra (839)	2.4 JTD	07.99-10.05		R134a 700 ±25	ND-8	PAG46	120
Musa (350)	1.3 + 1.9 Diesel	10.04-09.12		R134a 500 ±40	ND-8	PAG46	50/60
Musa (350)	1.6 Diesel	07.08-09.12		R134a 500 ±40	ND-8	PAG46	90
Phedra (179)		09.02-11.10		R134a 600 ±25	PAG46	PAG46	130
Thema (LX)		09.11-10.14		R134a 740 ±20	ND-8	PAG46	180
Thesis (841)		07.02-07.09		R134a 650 ±25	PAG46	PAG46	140
Yoyager MPV (404)		09.11-12.14	+ Rear evap.	R134a 800/1100 ±20	PAG46	PAG46	120/180
Ypsilon (843)	1.3 Diesel	10.03-12.11		R134a 500 ±40	ND-8	PAG46	50/60
Ypsilon (312)	1.3 Diesel	05.11-		R134a/R1234yf 500 ±40	ND-8/ND-12	PAG46/PAG46yf	50/60
<b>LAND ROVER</b>							
Defender (L316)	V8	11.98-02.16		R134a 900 ±30	ND-8	PAG46	180

NRF - AIR CONDITIONING FILLING CHART (2020)



Brand/Model	Engine	Year	Info	Refrigerant ± gr	OE Oil	ISO Oil	± 10ml
Defender (L316)	TD4/TD5	08.90-02.16		R134a 600 ±25/750 ±50	ND-8	PAG46	130/180
Discovery II (L318)		11.98-06.04	> 12.2002 / + Rear evap.	R134a 700/900 ±25	ND-8	PAG46	180/210
Discovery II (L318)		11.98-06.04	01.2003 > / + Rear evap.	R134a 700/780 ±25	ND-8	PAG46	180/210
Discovery III (L319)	2.7 TDV6/4.0i V6	07.04-09.09	+ Rear evap.	R134a 550/810 ±25	SP-10	PAG46	130/180
Discovery III (L319)	4.4i V8/	07.04-09.09	+ Rear evap.	R134a 600/900 ±50	SP-10	PAG46	130/180
Discovery IV (L319)	2.7 TDV6	09.09-	+ Rear evap.	R134a 550/810 ±25	ND-8	PAG46	130/170
Discovery IV (L319)	3.0i V6/5.0i V8	08.13-	+ Rear evap.	R134a 650/900 ±25	ND-8	PAG46	80/130
Discovery IV (L319)	3.0TDV6	09.09-	+ Rear evap.	R134a 600/900 ±25	SP-10	PAG46	80/130
Discovery IV (L319)	4.0i V8	09.09-	+ Rear evap.	R134a 600/900 ±25	ND-8	PAG46	130/170
Discovery V (L462)		09.16-	+ Rear evap.	R1234yf 800/1150 ±10	SP-A2	PAG46yf	80/130
Discovery Sport (L550)		09.14-		R1234yf 660 ±20	SP-A2	PAG46yf	150
Freelander I (L314)	1.8 Petrol/2.0 Diesel	02.98-10.06	> 10.2000 / 11.2000 >	R134a 725/540 ±25	ND-8	PAG46	120/150
Freelander I (L314)	2.5i V6	11.00-10.06		R134a 430 ±25	ND-8	PAG46	130
Freelander II (L359)	Petrol/Diesel	10.06-10.14		R134a 730 ±10	PAG46	PAG46	150/200
Range Rover II (P38A)	2.5 D	07.94-03.02		R134a 1100 ±25	ND-8	PAG46	150
Range Rover II (P38A)	3.9i+4.0i+4.6i V8	07.94-03.02	> 12.1998 / 01.1999 >	R134a 1250/1380 ±25	SP-10/ND-8	PAG46	150/180
Range Rover III (L322)	4.2i+4.4i V8	03.02-08.12		R134a 510 ±10	SP-10	PAG46	110
Range Rover III (L322) + Sport (L320)	3.6 TD8	04.06-03.13	+ Rear evap.	R134a 700/880 ±10	PAG46	PAG46	130/170
Range Rover III (L322) + Sport (L320)	5.0i V8	04.09-03.13	+ Rear evap.	R134a 750/930 ±20	SP-10	PAG46	110/200
Range Rover Evoque (L538)		06.11-		R134a/R1234yf 650 ±10	SP-A2	PAG46yf	150
Range Rover Sport (L320)	2.7 TDV6/3.0 D/4.2i+4.4i V8	02.05-03.13		R134a 550/600 ±10	ND-8	PAG46	130
Range Rover Sport (L494)	2.0i/3.0i V6/5.0i V8	04.13-	+ Rear evap.	R1234yf 800/1000 ±10	SP-A2	PAG46yf	80/130
Range Rover Sport (L494)	2.0 D/3.0 D+Hybrid/4.4 D	04.13-	+ Rear evap.	R1234yf 800/1150 ±10	SP-A2	PAG46yf	80/130
Range Rover Sport (L494)	2.0 PHEV Hybrid	10.17-	+ Rear evap.	R1234yf 950/1100 ±10	SP-A2	PAG46yf	80/130
Range Rover Velar (L560)		03.17-		R1234yf See OE!	SP-A2	PAG46yf	See OE!
<b>LEXUS</b>							
CT (ZWA10)	200h Hybrid	12.10-		R134a/R1234yf 470 ±20	ND-11	POE	135
GS (S16)	300/400/430	08.97-12.04		R134a 600 ±50	ND-8	PAG46	150
GS (S19)	300/350/430/460	04.05-11.11		R134a 450 ±50	ND-8	PAG46	130
GS (S19)	450h Hybrid	02.06-11.11		R134a 450 ±50	ND-11	POE	120
GS (L1)	200t/F 5.0i	09.15-		R134a/R1234yf 570 ±50/570 ±30	ND-8/ND-12	PAG46yf	75
GS (L1)	250/350	12.11-		R134a/R1234yf 500 ±50/500 ±30	ND-8/ND-12	PAG46yf	130
GS (L1)	300h Hybrid	10.13-		R134a/R1234yf 570 ±50/500 ±30	ND-11	POE	125
GS (L1)	450h Hybrid	01.12-		R134a/R1234yf 500 ±50/500 ±30	ND-11	POE	125
GX (URJ15)	460	01.10-	+ Rear evap.	R134a See OE!	ND-8	PAG46	See OE!
IS (E1)	200/300 + SportCross	04.99-10.05		R134a 600 ±50	ND-8	PAG46	120/150
IS (E2)	200D/220D/250/IS F	08.05-03.13		R134a 430 ±30/450 ±50	ND-8	PAG46	130
IS (E3)	200t/250/300h Hybrid	04.13-		R1234yf 570 ±50	ND-11/ND-12	POE/PAG46yf	120/130
LC (Z10)	500/500h Hybrid	11.16-		R1234yf 550 ±30	ND-12	PAG46yf	90

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Brand/Model	Engine	Year	Info	Refrigerant	± gr	OE Oil	ISO Oil	± 10ml
LS (F3)	430	08.00-08.06	+ Rear evap.	R134a	650/900 ±50	ND-8	PAG46	130/150
LS (F4)	460	04.06-11.16	+ Rear evap.	R134a	600/750 ±50	ND-8	PAG46	130/150
LS (F4)	600h Hybrid	04.07-01.18	> 10.2009 / 11.2009 >	R134a	900 ±50/840 ±30	ND-11	POE	130
LS (F5)	500/500h Hybrid	10.17-		R1234yf	See OE!	ND-12	PAG46yf	See OE!
NX (Z1)	200t/300/300h Hybrid	07.14-		R1234yf	550 ±50	ND-11/ND-12	POE/PAG46yf	120/130
RC (C1)	200t/F/300h Hybrid	08.14-		R1234yf	550 ±50	ND-11/ND-12	POE/PAG46yf	120
RX (MCU15)	300	01.98-05.03		R134a	650 ±50	ND-8	PAG46	120
RX (U3)	300/330/350	04.03-12.08		R134a	600 ±50	ND-8	PAG46	135
RX (U3)	400h Hybrid	09.04-12.08		R134a	600 ±50	ND-11	POE	125
RX (L1)	350	12.08-09.15		R134a	550 ±50	ND-8	PAG46	110
RX (L1)	450h Hybrid	12.08-10.15		R134a	600 ±50	ND-11	POE	125
RX (L2)	200t/300/450h Hybrid	08.15-		R1234yf	550 ±30	ND-11/ND-12	POE/PAG46yf	120/125
SC (UZZ40)	430	01.01-07.10		R134a	700 ±50	ND-8	PAG46	130
UX (AA1/AH1)	200/250h Hybrid	10.18-		R1234yf	500 ±50	ND-11/ND-12	POE/PAG46yf	120/130
<b>MAZDA</b>								
2 (DY)		02.03-06.07	1.2mm cond. tube/3.0mm cond. tube	R134a	470/650 ±15	SP-10	PAG46	200/210
2 (DE/DH)		10.07-06.15		R134a	485 ±15	ATMOS GU10	PAG46	110
2 (DL/DJ)	1.5 dCi	08.14-		R1234yf	360/390 ±25	VC200yf/YR20	PAG100yf	110/130
3 (BK)	1.4-2.0i/2.0 D/2.3 MPS+MZR	10.03-12.09		R134a	500 ±25	ATMOS GU10	PAG46	125/150
3 (BK)	1.6 Diesel	06.04-12.09		R134a	650 ±25	SP-10	PAG46	200
3 (BL)	2.0i/2.2 D/2.3 MPS	12.08-09.14		R134a	460/480 ±25	ATMOS GU10	PAG46	120
3 (BM/BN)	1.6i	09.13-		R134a/R1234yf	490/500 ±25	FD46XG/VC200yf	PAG46yf/PAG100yf	100/130
3 (BM/BN)	1.5 dCi/2.2 D	09.13-		R134a/R1234yf	490/470 ±25	FD46XG/SP-A2	PAG46/PAG46yf	100
3 (BP)		01.19-		R1234yf	See OE!	SP-A2	PAG46yf	See OE!
5 (CR19)		02.05-05.10		R134a	500 ±25	ATMOS GU10	PAG46	150
5 (CW)	1.6 Diesel	09.10-08.15		R134a	460/480 ±25	SP10/FD46XG	PAG46	110/120
6 (GG/GY)	2.0i/2.0 D	01.02-02.08		R134a	470 ±25	ATMOS GU10	PAG46	120/150
6 (GH)		08.07-07.13		R134a	525 ±25	ATMOS GU10/ZXL100PG	PAG46	120
6 (GJ/GL)		12.12-		R134a/R1234yf	490/500 ±25	FD46XG/SP-A2	PAG46/PAG46yf	100
6 (GJ/GL)	2.2 D	12.12-		R134a/R1234yf	470/500 ±25	FD46XG/SP-A2	PAG46/PAG46yf	100
121 III (JASM/JBSM)		03.96-04.03		R134a	740 ±10	PAG46	PAG46	200
323 F VI (BJ)		09.98-05.04		R134a	600 ±25	ATMOS GU10	PAG46	150
626 V (GF)		05.97-10.02	Suction line Ø26/Suction line Ø32	R134a	625/700 ±25	ATMOS GU10	PAG46	150
B-Series (UN)		02.99-11.06		R134a	550 ±25	FD46XG	PAG46	180
BT-50 (CD/UN)		08.06-12.15		R134a	475 ±25	FD46XG	PAG46	180
BT-50 (B22/B32/UP/UR)		12.12-		R134a/R1234yf	650 ±10	FD46XG/SP-A2	PAG46/PAG46yf	150
CX-3 (DK)		05.15-		R134a/R1234yf	420/360 ±25	VC200yf	PAG100yf	110
CX-3 (DK)	Diesel	05.15-		R134a/R1234yf	420/390 ±25	YR20	PAG100yf	130/140
CX-5 (KE/GH)		11.11-12.18		R134a/R1234yf	490/500 ±25	FD46XG/SP-A2	PAG46/PAG46yf	100



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Brand/Model	Engine	Year	Info	Refrigerant	± gr	OE Oil	ISO Oil	± 10ml
CX-5 (KE/GH)	2.2 D	04.12-02.17		R134a/R1234yf	490/470 ±25	FD46XG/SP-A2	PAG46/PAG46yf	100
CX-5 (KF)	2.2 D	05.17-		R1234yf	470/500 ±25	SP-A2	PAG46yf	100
CX-7 (ER)		06.06-12.14	Manual trans./Automatic trans.	R134a	500 ±25	ATMOS GU10	PAG46	120/150
CX-7 (ER)	2.2 D	07.09-03.13		R134a	470 ±25	ATMOS GU10	PAG46	120
CX-9 (TB)		09.06-		R134a	685 ±25	ND-8	PAG46	160
Demio (DW)		08.98-07.03		R134a	600 ±25	ATMOS GU10	PAG46	150
E-Series (SD1/SL/SR1/SR2)		1995-09.04		R134a	550 ±25	ND-8	PAG46	150
MPV II (LW)	2.0i/2.5i V6	08.99-07.02	+ Rear evap.	R134a	650/850 ±25	ND-8	PAG46	160/180
MPV II (LW)	2.0 Di/2.3i/3.0i V6	01.02-12.06	+ Rear evap.	R134a	600/800 ±25	ND-8	PAG46	160/180
MX-5 III (NC)		03.05-12.14		R134a	450 ±25	DH-PR	PAG100	130
MX-5 IV (ND)		06.15-		R1234yf	360 ±25	YR20	PAG100yf	130
Premacy (CP)		07.99-03.05	Hot climate countries	R134a	650/700 ±25	ATMOS GU10	PAG46	150
RX-8 (SE/FE)		10.03-06.12		R134a	430 ±25	ND-8	PAG46	60
Tribute (EP)		03.00-05.08		R134a	900 ±25	ATMOS GU10	PAG46	170
<b>MERCEDES</b>								
A-Class (W168)		07.97-08.04		R134a	600 ±30	ND-8	PAG46	100
A-Class (W169)	200 CDI/200 Turbo	09.04-06.12		R134a	770/840 ±30	ND-8	PAG46	120
A-Class (W176)		06.12-05.18		R134a/R1234yf	650/630 ±10	ND-12	PAG46yf	120
A-Class (W177)		03.18-		R134a/R1234yf	690/630 ±10	ND-12	PAG46yf	80
AMG GT (C190/R190)		10.14-		R134a/R1234yf	640/590 ±10	ND-12	PAG46yf	120
B-Class (W245)		03.05-11.11		R134a	770 ±30	ND-8	PAG46	120
B-Class (W245)	200 CDI/200 Turbo	03.05-06.11	> VIN 176283/VIN 176284 >	R134a	840/770 ±30	ND-8	PAG46	120
B-Class (W246/W242)		11.11-11.18		R134a/R1234yf	650/630 ±10	ND-12	PAG46yf	120
B-Class (W247)		12.18-		R1234yf	See OE!	ND-12	PAG46yf	See OE!
C-Class (S202/W202)		03.93-03.01	> VIN A168524/F164269/Denso 6CA17C comp.	R134a	950 ±25	ND-8	PAG46	145
C-/CLK-Class(C208/S202/W202)		03.93-07.02	VIN A168524/F164270 > /Denso 7SBU16C comp.	R134a	850 ±25	ND-8	PAG46	120
C-/CLC-/CLK-Class (A209/C209/CL203/S203/W203)		05.00-04.04	Integrated dryer laterally	R134a	750 ±25	ND-8	PAG46	120
C-/CLC-/CLK-Class (A209/C209/CL203/S203/W203)		05.04-06.11	Detachable dryer at the bottom	R134a	850 ±25	ND-8	PAG46	120
C-Class (C204/S204/W204)	C 63 AMG	01.07-08.14		R134a	590/640 ±10	ND-8	PAG46	120
C-Class (C205/S205/W205)	AMG C 63	12.13-		R134a/R1234yf	630/600 ±10	SP-A2	PAG46yf	80
C-Class (S205/W205)	300 BlueTec Hybrid	05.14-		R134a/R1234yf	710/690 ±10	SE-10y	POE	120
Citan (415)		11.12-		R134a	550 ±10	SP-10	PAG46	150
CLA (C117/X117)		01.13-		R134a/R1234yf	650/630 ±10	ND-12	PAG46yf	120
CLS (C219)		10.04-12.10		R134a	950 ±25	ND-8	PAG46	120
CLS + Shootingbrake (C218/X218)	CLS 63 AMG	01.11-		R134a	590/640 ±10	ND-8	PAG46	120
CLS (257)		12.17-		R1234yf	630 ±10	SP-A2	PAG46yf	80
E-Class (S210/W210)		06.95-03.03		R134a	1000 ±25	ND-8	PAG46	120
E-Class (S211/W211)		03.02-07.09		R134a	950 ±50	ND-8	PAG46	120
E-Class (S212/W212)		01.09-05.16		R134a	590 ±10	ND-8	PAG46	120

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Brand/Model	Engine	Year	Info	Refrigerant	± gr	OE Oil	ISO Oil	± 10ml
E-Class Coupe/Cabrio (A207/C207)		01.09-2017		R134a	530 ±10	ND-8	PAG46	120
E-Class (A238/S213/W213)		01.16-		R1234yf/R744	630/340 ±10	SP-A2/PAG VG68	PAG46yf/PAG VG68	80/100
E-Class (S213/W213)	AMG E 63	01.17-		R1234yf	550 ±10	SP-A2	PAG46yf	80
G-Class (W461/W463)		09.98-2018	+ Rear evap.	R134a	1050/1180 ±50	ND-8	PAG46	120
G-Class (W463)		01.18-		R1234yf	See OE!	ND-12	PAG46yf	See OE!
GLA-Class (X156)		12.13-		R134a/R1234yf	650/630 ±10	ND-12	PAG46yf	120
GLC (C253/X253)		06.15-		R134a/R1234yf	630 ±10	SP-A2	PAG46yf	80
GLK-Class (X204)		06.08-06.15		R134a	590 ±10	ND-8	PAG46	120
M-Class (W163)		02.98-06.05		R134a	750 ±25	ND-8	PAG46	170
M-Class (W164)/GL-Class (X164)		07.05-06.12	+ Rear evap.	R134a	970/1220 ±30	ND-8	PAG46	110
M-Class/GLE (W166)/GL/GLS-Class (X166)		06.11-12.15	+ Rear evap.	R134a	1050/1300 ±30	SP-A2	PAG46yf	120
GLE (W166/C292)/GL/GLS-Class (X166)		04.15-	+ Rear evap.	R1234yf	1000/1300 ±30	SP-A2	PAG46yf	120
GLE (W167)		10.18-		R1234yf	See OE!	ND-12	PAG46yf	See OE!
R-Class (W251/V251)		01.06-10.12	+ Rear evap.	R134a	970/1220 ±30	ND-8	PAG46	110
S-Class (W140)		02.91-10.98	> VIN 1A128373/+ Rear evap.	R134a	1200/1400 ±30	ND-8	PAG46	170
S-Class (W140)		02.91-10.98	VIN 1A128374 >/+ Rear evap.	R134a	1150/1250 ±30	ND-8	PAG46	170
S-Class (W220)		10.98-08.05	+ Rear evap.	R134a	950/1050 ±30	ND-8	PAG46	120
S-Class (W221)		10.05-12.13	+ Rear evap.	R134a	1070/1180 ±30	ND-8	PAG46	110
S-Class (W222/N222/X222)		05.13-	+ Rear evap.	R134a	660/770 ±10	ND-8	PAG46	110
S-Class (W222/N222/X222)		05.13-	+ Rear evap.	R1234yf	640/730 ±10	SP-A2	PAG46yf	110
S-Class (W222/N222/X222)		05.13-	+ Rear evap.	R744	420/450 ±10	PAG VG68	PAG VG68	100
S-Class (W222/N222/X222)	300+400 Hybrid 20kW	05.13-	+ Rear evap.	R134a	770/870 ±10	SE-10y	POE	120
S-Class (W222/N222/X222)	300+400 Hybrid 20kW	05.13-	+ Rear evap.	R1234yf	730/850 ±10	SE-10y	POE	120
S-Class (W222/N222/X222)	500 Hybrid 85kW	07.14-	+ Rear evap.	R134a	710/820 ±10	SE-10y	POE	120
S-Class (W222/N222/X222)	500 Hybrid 85kW	07.14-	+ Rear evap.	R1234yf	670/800 ±10	SE-10y	POE	120
S-Class Coupe (C140)		09.92-12.99		R134a	1200 ±30	ND-8	PAG46	170
S-Class Coupe (C215)		03.99-03.06		R134a	950 ±25	ND-8	PAG46	120
S-Class Coupe (C216)		05.06-12.13		R134a	1070 ±30	ND-8	PAG46	110
S-Class Coupe (C217)		04.14-		R134a/R1234yf	660/640 ±10	SP-A2	PAG46yf	110
S-Class Coupe (C217)		04.14-		R744	420 ±10	PAG VG68	PAG VG68	100
SL (R129)		03.89-12.01		R134a	950 ±25	ND-8	PAG46	150
SL (R230)		10.01-01.12	Comp. Denso 7SEU16C/Denso 7SEU17 comp.	R134a	920 ±30	ND-8	PAG46	120/140
SL (R231)		01.12-		R134a/R1234yf	550 ±10	ND-12	PAG46yf	120
SLC/SLK (R172)		02.11-		R134a/R1234yf	550 ±10	ND-12	PAG46yf	120
SLK (R170)		09.96-04.04		R134a	850 ±25	ND-8	PAG46	120
SLK (R171)		03.04-02.11	> VIN 187119/VIN 187120 >	R134a	670 ±30/530 ±10	ND-8	PAG46	120
SLR (R199)		04.04-2009		R134a	980 ±25	ND-8	PAG46	170
SLS AMG (C197/R197)		03.10-12.13		R134a	780 ±20	ND-8	PAG46	120
Sprinter (901/902/903/904/905)		02.95-05.06	+ Rear evap.	R134a	860/1300 ±30	ND-8	PAG46	120/180

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Brand/Model	Engine	Year	Info	Refrigerant	± gr	OE Oil	ISO Oil	± 10ml
Sprinter (906)		06.06-01.18	+ Rear evap.	R134a	800/1190 ±30	ND-8	PAG46	130/190
Sprinter (907/910)		02.18-	+ Rear evap.	R134a	600/See OE! ±10	ND-12	PAG46yf	80/See OE!
Vaneo (414)		02.02-07.05		R134a	600 ±10	ND-8	PAG46	100
Vito/V-Class (638)		02.96-07.03	Sanden SD7V16/Denso 7SBU16 comp.	R134a	850 ±20	ND-8	PAG46	135/175
Vito/V-Class (638)		02.96-07.03	Denso 10PA17C comp.	R134a	920 ±20	ND-8	PAG46	150
Vito/V-Class (638)		02.96-07.03	Denso 7SBU16 comp./ + Rear evap.	R134a	1100 ±20	ND-8	PAG46	175
Vito/Viano (W639)		09.03-	+ Rear evap.	R134a	550/840 ±20	ND-8	PAG46	150/190
V-Class/Vito (W447)		10.14-	+ Rear evap.	R134a/R1234yf	600/900 ±30	ND-12	PAG46yf	120/180
<b>MG &gt; See ROVER / MG</b>								
<b>MINI</b>								
Mini/Convertible (R50/R52/R53)		06.01-11.07		R134a	415 ±10	RL244/ND-8	PAG46	140
Mini/Clubman/Convertible/Countryman/Coupe/Paceman/Roadster (R55/R56/R57/R58/R59R60/R61)		09.06-10.16		R134a	490 ±10	SP-10	PAG46	135
Mini/Clubman/Convertible/Countryman/Cooper/One (F54/F55/F56/F57/F60)		09.13-	HVCC comp.	R134a/R1234yf	500 ±10	DH-PS/DH-PSD1	PAG46/PAG46yf	110
<b>MITSUBISHI</b>								
3000 GT (Z1)		06.89-08.00		R134a	650 ±20	SUN PAG56	PAG46	160
ASX (GA)		02.10-		R134a	500 ±20	SUN PAG56	PAG46	80
Carisma (DA)	Diesel	07.95-06.06		R134a	700 ±20	SUN PAG56/SP-20	PAG46/PAG100	120/135
Colt V (CJ)		05.96-07.05		R134a	575 ±20	SUN PAG56	PAG46	120
Colt VI/Colt Plus (Z2/Z3)/CZC (RG)		06.04-09.08		R134a	430 ±20	ND-8	PAG46	110
Colt VI/Colt Plus (Z2/Z3)/CZC (RG)		09.08-06.12		R134a	430 ±20	ND-8	PAG46	140
Eclipse II (D3)		04.94-04.99		R134a	650 ±20	SUN PAG56	PAG46	180
Galant VI (EA)		09.96-10.04		R134a	690 ±20	SUN PAG56	PAG46	120
Galloper (JK-01)		09.98-12.03	+ Rear evap.	R134a	780/1180 ±20	FD46XG	PAG46	180/220
Grandis (NA)		04.04-06.11	+ Rear evap.	R134a	560/750 ±25	SUN PAG56	PAG46	90/170
i-MiEV Electric (HA)		07.09-		R134a	325 ±20	MA68EV	POE	100
L 200 (K6/K7)		06.96-12.07		R134a	575 ±25	ZXL100PG	PAG46	180
L 200/Triton (KA/KB)		11.05-12.15		R134a	555 ±20	ZXL100PG	PAG46	130
L 200/Triton (KJ/KK/KL)		11.14-		R134a	520 ±20	DH-PR	PAG100	150
L 300 (P0/P1/P2)		11.86-12.13	+ Rear evap.	R134a	725/1225 ±25	ND-8	PAG46	100/180
L 400/Delica/Space Gear (PA/PB/PC/PD)		01.94-01.07	+ Rear evap.	R134a	650/975 ±25	ZXL100PG/SUN PAG56	PAG46	180/240
Lancer VI (CJ/CE/CP)	EVO	09.95-09.04		R134a	575/560 ±20	SUN PAG56	PAG46	120
Lancer VII (CG/CH/CJ/CS/CT)	EVO	06.00-12.13		R134a	500 ±20	SUN PAG56	PAG46	130
Lancer VIII (CJ/CY/CX/CZ)		03.07-		R134a	500 ±20	SUN PAG56	PAG46	90
Outlander I (CU)		01.02-12.06		R134a	550 ±20	SUN PAG56	PAG46	120
Outlander II (CW)		11.06-12.12		R134a	500 ±20	SUN PAG56	PAG46	90
Outlander III (GF/GG)		08.12-		R134a/R1234yf	500/550 ±20	SUN PAG56	PAG46/PAG46yf	80
Outlander III (GF/GG)	PHEV Hybrid	12.12-		R134a	590 ±20	MA68EV	POE	100
Pajero III/Shogun III (V60/V70)		01.99-09.07	+ Rear evap.	R134a	550/750 ±20	ND-8	PAG46	120/140

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Brand/Model	Engine	Year	Info	Refrigerant	± gr	OE Oil	ISO Oil	± 10ml
Pajero IV/Shogun IV (V80/V90)		11.06-	+ Rear evap.	R134a	550/870 ±20	ND-8	PAG46	120/180
Pajero Sport/Shogun Sport (K90)		11.97-05.08		R134a	625 ±25	SUN PAG56	PAG46	170
Pajero Pinin/Shogun Pinin (H6W/H7W)		03.99-06.07		R134a	620 (RHD 570) ±20	ZXL200PG	PAG100	130-200
Santamo (M-200E)		05.99-12.04		R134a	730 ±20	FD46XG	PAG46	210
Sigma (F0/F1/F2)		12.90-10.96		R134a	775 ±25	ND-8	PAG46	150
Space Wagon/Space Runner (N1/N3/N4)		10.91-10.98	Space Wagon	R134a	720 ±20	ND-8	PAG46	120/180
Space Wagon/Space Runner (N5/N8/N9)		10.98-12.04		R134a	550 ±50	ND-8	PAG46	80
Space Star (DG0)		06.98-01.05		R134a	680 ±20	SUN PAG56	PAG46	135
Space Star (A0)/Mirage (A1)		01.12-		R1234yf	270 ±20	VC200yf	PAG100yf	60-70
<b>NISSAN</b>								
350Z (Z33)		09.02-12.09		R134a	550 ±20	DH-PS	PAG46	150
370Z (Z34)		01.09-		R134a	500 ±10	DH-PS	PAG46	150
Almera II (N16)/Almera Tino (V10)		01.00-12.09		R134a	500 ±50	DH-PS	PAG46	190
Cube (Z12)/Juke (F15)	Petrol	09.08-		R134a/R1234yf	450/500 ±10	DH-PR/YR20	PAG100/PAG100yf	120
Cube (Z12)/Juke (F15)	Diesel	03.10-		R134a/R1234yf	450/500 ±10	DH-PR/YR20	PAG100/PAG100yf	150
GT-R (R35)		12.07-		R134a/R1234yf	500 ±10	DH-PS/VC100yf	PAG46/PAG46yf	150
Interstar (X70)		04.02-10.03	Delphi comp./ + Rear evap.	R134a	850/1400 ±25	RL488	PAG150	220/260
Interstar (X70)		11.03-06.10	Delphi comp./ + Rear evap.	R134a	750/1200 ±25	RL488	PAG150	220/260
Interstar (X70)		04.02-10.03	Sanden comp./ + Rear evap.	R134a	850/1400 ±25	SP-10	PAG46	135/180
Interstar (X70)		11.03-06.10	Sanden comp./ + Rear evap.	R134a	750/1200 ±25	SP-10	PAG46	135/180
Kubistar (X76)		08.03-10.09		R134a	660 ±35	SP-10	PAG46	135
Leaf (ZE0)	Electric	11.10-	Panasonic comp./Denso comp.	R134a/R1234yf	400/850 ±10	AE-10/ND-11	POE	150
Leaf (ZE1)	Electric	08.17-		R1234yf	See OE!	POE	POE	See OE!
Maxima QX V (A33)		09.99-11.03		R134a	650 ±50	DH-PS	PAG46	200
Micra II/March II (K11)		09.00-02.03		R134a	500 ±50	DH-PR	PAG100	200
Micra III/March III (K12)	Petrol/Diesel	01.03-06.10		R134a	500/550 ±50	DH-PR/SP-10	PAG100/PAG46	80/135
Micra III C+C (K12)	1.6 SR	08.05-03.09		R134a	450/500 ±50	DH-PR	PAG100	80/120
Micra IV/March IV (K13)		05.10-		R134a/R1234yf	400/450 ±10	DH-PR/YR20	PAG100/PAG100yf	120
Murano I (Z50)		08.03-09.08		R134a	525 ±25	DH-PS	PAG46	150
Murano II (Z51)		11.07-09.14		R134a	600 ±20	DH-PS	PAG46	150
Murano III (Z52)		10.14-		R1234yf	See OE!	DH-PSD1	PAG46yf	See OE!
Navara (D40)		10.04-12.15	Manual AC	R134a	1080 ±50	DH-PS	PAG46	180
Navara (D40)		10.04-12.15	ECC/ + Rear evap.	R134a	700/850 ±50	DH-PS	PAG46	180/210
Navara (D23)		07.14-		R134a	500 ±50	DH-PS	PAG46	150
Note (E11)	Petrol	01.06-08.13	HR16DE engine	R134a	475 ±25	DH-PR	PAG100	80/120
Note (E11)	Diesel	03.06-06.12		R134a	550 ±50	DH-PS	PAG46	135
Note (E12)	Petrol/Diesel	06.13-	Calsonic CR08B/CR12S comp.	R1234yf	400 ±25	YR20	PAG100yf	120/150
NV200/Evalia	Petrol	07.10-	+ Rear evap.	R134a	450/650 ±25	DH-PR	PAG100	120/220
NV200/Evalia	Diesel	07.10-	Sanden SD6V12 comp./+ Rear evap.	R134a	450/650 ±25	PAG46	PAG46	135/235

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Brand/Model	Engine	Year	Info	Refrigerant	± gr	OE Oil	ISO Oil	± 10ml
NV200/Evalia	Diesel	07.10-	Calsonic CR12S + Rear evap.	R134a	450/650 ±25	DH-PR	PAG100	150/250
NV300 (X82)		09.16-	+ Rear evap.	R134a	590/880 ±20	ZXL100PG	PAG46	120/220
NV300 (X82)		09.16-	+ Rear evap.	R1234yf	540/850 ±20	VC100yf	PAG46yf	120/220
NV400 (X62)		08.10-	+ Rear evap.	R134a	580/1100 ±35	ZXL100PG	PAG46	120/180
NV400 (X62)		08.10-	+ Roof top unit	R134a	580/1700 ±35	ZXL100PG	PAG46	120/180
Pathfinder III (R51)		01.05-08.14	+ Rear evap.	R134a	750/850 ±50	DH-PS	PAG46	180/210
Pathfinder IV (R52)		09.12-	+ Rear evap.	R1234yf	See OE!	DH-PSD1	PAG46yf	See OE!
Patrol GR (Y61)		06.97-2008		R134a	800 ±50	DH-PS	PAG46	300
Pick Up (D22)	2.5 Di	01.97-2007		R134a	550 ±50	DH-PR/DH-PS	PAG100/PAG46	200
Pixo (UA0)		06.09-		R134a	370 ±20	ND-8	PAG46	65
Primastar (X83)		03.01-08.16	Delphi comp./ + Rear evap.	R134a	750/1150 ±35	RL488	PAG150	220/260
Primastar (X83)	2.0 DCi	09.06-08.16	Zexel comp./+ Rear evap.	R134a	650/950 ±35	DH-PS	PAG46	220/260
Primera (P12/WP12)		01.02-10.08		R134a	500 ±25	DH-PS	PAG46	180
Pulsar (C13)		10.14-		R1234yf	450 ±25	YR20	PAG100yf	150
Qashqai I (J10/NJ10/JJ10)		02.07-12.13	> VIN 1296764/VIN 1296765 > > VIN 6000050/VIN 6000051 >	R134a	450/500 ±25	DH-PS	PAG46	150
Qashqai I (J10/NJ10/JJ10)		02.07-12.13	VIN 1517642 > /VIN 6044349 >	R134a	550 ±25	DH-PS	PAG46	150
Qashqai II (J11)		11.13-		R1234yf	500 ±25	ND-12	PAG46yf	110
Tiida (C11/SC11)/Versa I	Petrol	05.04-06.13		R134a	450 ±50	DH-PR	PAG100	120
Tiida (C11/SC11)/Versa I	Diesel	03.07-06.13		R134a	450 ±50	DH-PS	PAG46	100
Terrano II (R20/R50)	2.4 i/2.7 TD	02.93-09.07		R134a	750 ±50	DH-PR	PAG100	200
Terrano II (R20/R50)	3.0 Di/3.5 i	10.94-09.07	> VIN 55000000/VIN 55000001 >	R134a	750/650 ±50	DH-PS	PAG46	200/250
X-Trail (T30)	Diesel	06.01-01.13		R134a	500 ±25	DH-PS/DH-PR	PAG46/PAG100	180
X-Trail (T31)		03.07-07.14		R134a	450 ±20	DH-PS	PAG46	150
X-Trail (T32)		12.13-		R1234yf	500 ±25	ND-12	PAG46yf	110
<b>OPEL / VAUXHALL</b>								
Adam (M13)		10.12-05.19		R134a/R1234yf	450/420 ±20	PAG46A	PAG46yf	70
Agila A (H00)		09.00-12.07		R134a	475 ±25	SP-10	PAG46	120
Agila B (H08)	1.3 CDTi	04.08-10.14		R134a	370 ±20	ZXL200PG/ND-8	PAG100/PAG46	80
Ampera (R12)		11.11-03.15		R134a	950 ±25	ND-11	POE	180
Ampera-e (F17)		05.17-		R1234yf	725 ±25	ND-11	POE	120
Antara (L07)	Petrol/Diesel	07.06-		R134a	660/520 ±20	PAG46	PAG46	150
Astra F (T92)		1994-08.02		R134a	900 ±25	PAG100	PAG100	295
Astra G (T98/F35/F70)		02.98-12.01		R134a	700 ±25	RL244	PAG46	120
Astra G (T98/F70)		01.02-12.09		R134a	600 ±25	DH-PS	PAG46	120
Astra H (A04)		01.04-12.05		R134a	475 ±25	DH-PS	PAG46	150
Astra H (A04)		01.06-05.14		R134a	450 ±25	DH-PS	PAG46	150
Astra J (P10)		12.09-08.18	Manual trans./Automatic trans.	R134a/R1234yf	600/630 ±20	DH-PSD1	PAG46yf	120
Astra K (B16)		06.15-		R134a/R1234yf	520/480 ±20	SP-A2	PAG46yf	60
Cascada (W13)		03.13-		R134a/R1234yf	630/590 ±20	DH-PSD1	PAG46yf	120

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Brand/Model	Engine	Year	Info	Refrigerant	± gr	OE Oil	ISO Oil	± 10ml
Combo D (X12)		02.12-	Denso comp./Sanden comp.	R134a/R1234yf	450/430 ±20	ND-12/SP-A2	PAG46yf	80/120
Combo (X19)		06.18-	Cond. 19 dm³/Sanden comp./ + Rear evap.	R1234yf	450/775 ±10	SP-A2	PAG46yf	60
Combo (X19)		06.18-	Cond. 23 dm³/Jianshe comp./ + Rear evap.	R1234yf	650/950 ±10	VC200YF	PAG100yf	135
Corsa C/Combo Tour C (X01)	Diesel/Petrol	09.00-12.12		R134a	560 ±20/650 ±25	SP-10	PAG46	120/150
Corsa D (S07)		07.06-08.14		R134a	470 ±20	ND-8	PAG46	80
Corsa E (X15)		09.14-		R134a/R1234yf	450/390 ±20	ND-8	PAG46	80
Corsa-e F (68)	Electric	07.19-		R1234yf	See OE!	ND-11	POE	See OE!
Crossland X (P17)		03.17-	+ High performance AC	R1234yf	400/425 ±20	ND-12	PAG46yf	80
Frontera B (U99)		10.98-07.04		R134a	650 ±25	PAG100	PAG100	200
Grandland X (A18)		06.17-	+ Large condenser (H: 430mm)	R1234yf	450/525 ±20	ND-12	PAG46yf	110
GT (M07)		06.07-12.11		R134a	470 ±20	PAG46	PAG46	115
Insignia A (G09)		07.08-03.17	Sanden comp./Delphi comp.	R134a	600 ±20	SP-10/DH-PS	PAG46	110/150
Insignia B (Z18)		03.17-		R1234yf	400 ±20	SP-A2	PAG46yf	60
Karl/Viva (C16)		01.15-	RHD	R1234yf	380/430 ±20	ND-12	PAG46yf	60
Meriva A (X03)	1.3 + 1.7 Diesel	05.03-05.10		R134a	690 ±20	SP-10/DH-PS	PAG46	120/150
Meriva B (S10)		06.10-03.17		R134a/R1234yf	580/550 ±20	DH-PS/DH-PSD1	PAG46/PAG46yf	125
Mokka + X (J13)		06.12-		R134a/R1234yf	570 ±20	DH-PS/DH-PSD1	PAG46/PAG46yf	70
Movano A (X70)		07.98-10.03	Delphi comp./ + Rear evap.	R134a	850/1400 ±25	RL488	PAG150	220/260
Movano A (X70)		11.03-12.09	Delphi comp./ + Rear evap.	R134a	750/1200 ±25	RL488	PAG150	220/260
Movano A (X70)		07.98-10.03	Sanden comp./ + Rear evap.	R134a	850/1400 ±25	SP-10	PAG46	135/180
Movano A (X70)		11.03-12.09	Sanden comp./ + Rear evap.	R134a	750/1200 ±25	SP-10	PAG46	135/180
Movano B (X62)		02.10-	+ Rear evap.	R134a	580/1100 ±35	ZXL100PG	PAG46	120/180
Movano B (X62)		02.10-	+ Roof top unit	R134a	580/1700 ±35	ZXL100PG	PAG46	120/180
Omega B (V94)	2.0 + 2.2 Diesel	03.94-07.03		R134a	950 ±25	RL488	PAG150	250/295
Omega-B	2.5 Diesel	04.94-07.03		R134a	950 ±25	ND-8	PAG46	150
Tigra TwinTop (X04)	1.3 CDTi	06.04-12.10		R134a	560/650 ±20	SP-10	PAG46	120/150
Vectra B (J96)	1.7 Diesel	09.95-07.03		R134a	900 ±25	ND-8/RL488	PAG46/PAG150	150/295
Vectra B (J96)	2.0 + 2.2 Diesel	11.96-07.03		R134a	750 ±25	RL488	PAG150	295
Vectra B (J96)	2.5i + 2.6 V6 Petrol	10.95-07.03		R134a	900 ±25	ND-8	PAG46	120
Vectra C (Z02)/Signum (Z03)		04.02-01.09	Delphi V5 comp.	R134a	730 ±20	SP-10/RL488	PAG46/PAG150	120/220
Vectra C (Z02)/Signum (Z03)	2.8 V6/3.0 Diesel	04.02-01.09		R134a	680 ±20	SP-10	PAG46	120
Vivaro A (X83)		08.01-07.14	Delphi comp./ + Rear evap.	R134a	750/1150 ±35	RL488	PAG150	220/260
Vivaro A (X83)	2.0 CDTi	08.06-07.14	Zexel comp./ + Rear evap.	R134a	650/950 ±35	DH-PS	PAG46	220/260
Vivaro B (X82)		06.14-03.19	Zexel comp./ + Rear evap.	R134a	590/880 ±20	ZXL100PG	PAG46	120/220
Vivaro B (X82)		06.14-03.19	Zexel comp./ + Rear evap.	R1234yf	540/850 ±20	VC100yf	PAG46yf	120/220
Zafira (T98)		04.99-12.01	+ Rear evap.	R134a	700/950 ±25	DH-PS/ND-8	PAG46	120/240
Zafira (T98)		01.02-06.05	+ Rear evap.	R134a	600/725 ±25	DH-PS/ND-8	PAG46	120/240
Zafira B (A05)		07.05-04.15		R134a	475 ±25	DH-PS	PAG46	150
Zafira Tourer C (P12)		10.11-07.19		R134a/R1234yf	630 ±25	DH-PS/DH-PSD1	PAG46/PAG46yf	125

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Brand/Model	Engine	Year	Info	Refrigerant	± gr	OE Oil	ISO Oil	± 10ml
Zafira Life		03.19-	Cond. 19 dm³/Sanden comp./ + Rear evap.	R1234yf	450/775 ±10	SP-A2	PAG46yf	60/See OE!
Zafira Life		03.19-	Cond. 23 dm³/Jianshe comp./ + Rear evap.	R1234yf	650/975 ±10	VC200YF	PAG100yf	135/See OE!
<b>PEUGEOT</b>								
106 II (1A/1C)		04.96-05.05.05	Sanden SD6V12/Sanden SD7V16 comp.	R134a	890/915 ±25	SP-10	PAG46	135
106 II (1A/1C)	1.6 Gti/1.5 Diesel	04.96-07.04	Sanden SD6V12/Sanden SD7V16 comp.	R134a	850/860 ±25	SP-10	PAG46	135
107 (PM/PN)	1.0i/1.4 HDi	06.05-05.14		R134a	450/500 ±25	ZXL200PG	PAG100	80
108		05.14-		R134a/R1234yf	380 ±20/350 ±10	VC200YF	PAG100yf	80
206 (2A/C)/206 CC (2D)	1.6 Hdi	08.98-12.12		R134a	630/725 ±20	SP-10	PAG46	135
206+ (2L/2M)		01.09-08.13		R134a	675 ±20	SP-10	PAG46	135
207/207+ (WA/WC/WK)/207 CC (WD)		02.06-12.15		R134a	450 ±25	SP-10	PAG46	135
208 I (CA/CC/CR)		03.12-05.19	Sanden SNE12/Denso 5SEL12C/Sanden SD6C12	R134a/R1234yf	450 ±20/400 ±10	PAG46/PAG46yf	PAG46/PAG46yf	80/110
208 II (UB/UP)		06.19-		R1234yf	See OE!	PAG46yf	PAG46yf	See OE!
301		11.12-		R134a/R1234yf	450 ±20/420 ±10	VC200YF	PAG100yf	110
306 (7A/7B/7C/7E/N3/N5)		1997-04.02		R134a	725 ±25	SP-10	PAG46	135
307 (3A/C/3E)/307 CC (3B)/307 SW (3H)		08.00-06.04	> VIN DAM 10080	R134a	585 ±25	SP-10	PAG46	135
307 (3A/C/3E)/307 CC (3B)/307 SW (3H)		06.04-12.09	VIN DAM 10081 >	R134a	450 ±25	SP-10	PAG46	135
308 I +CC/SW (4A/4C/4E/4H)		09.07-12.16	Denso 5SEL12/Denso 6SEL16 comp.	R134a	425 ±25	ND-8	PAG46	80/120
308 I +CC/SW (4A/4C/4E/4H)		09.07-12.16	Sanden comp.	R134a	425 ±25	SP-10	PAG46	135
308 II +SW II (LB/LC)		09.13-	Denso comp./Sanden comp. Cond. 12mm (19 dm³)/Cond. 16mm (23 dm³)	R134a	450/575 ±25	ND-8/SP-10	PAG46	80/110
308 II +SW II (LB/LC)		09.13-	Denso comp./Sanden comp.	R1234yf	400/575 ±10	ND-12/SP-A2	PAG46yf	80/110
308 II +SW II (LB/LC)		09.13-	Cond. 12mm (23 dm³)/Denso/Sanden comp.	R1234yf	525 ±10	ND-12/SP-A2	PAG46yf	80/110
406 (8B/8E/F)/406 Coupé (8C)		1999-01.05	> VIN 80800000/VIN 80800001 > + Delphi comp.	R134a	750/625 ±25	RL488	PAG150	265
406 (8B/8E/F)/406 Coupé (8C)		1999-01.05	> VIN 80800000/VIN 80800001 > + Sanden comp.	R134a	800/775 ±25	SP-10	PAG46	135
407 (6D)/407 Coupé (6C)/407 SW (6E)		03.04-12.11	Euro 4/Euro 5	R134a	525/650 ±25	SP-10	PAG46	135
408		02.10-	Denso 5SEL12/Sanden comp.	R134a	425 ±25	ND-8/SP-10	PAG46	80/135
508 I (8D)+SW (8E)		11.10-08.18	Sanden SD6C12/Sanden SD7C16 comp.	R134a/R1234yf	525 ±25/475 ±10	SP-10/SP-A2	PAG46/PAG46yf	110/135
508 II (FB/F3/FE)+SW (FE/F4)		09.18-		R1234yf	See OE!	PAG46yf	PAG46yf	See OE!
607 (9D/9U)		02.00-07.11		R134a	625 ±25	SP-10	PAG46	135
806 (221)		06.94-08.02		R134a	950 ±25	SP-10	PAG46	135
807 (E)	Diesel/Petrol	06.02-06.14		R134a	540 ±20/675 ±25	SP-10	PAG46	135
1007 (KM)		04.05-12.09		R134a	500 ±25	SP-10	PAG46	135
2008 (CU)	Petrol/1.5 Diesel	03.13-	Denso comp./Jianshe comp.	R134a/R1234yf	450 ±20/400 ±10	ND12/HD100	PAG46yf/PAG100yf	80/135
2008 (CU)	1.4+1.6 Diesel	03.13-	Sanden comp./Jianshe comp.	R134a/R1234yf	450 ±20/400 ±10	SP-A2/HD100	PAG46yf/PAG100yf	110/135
3008 (OU)		06.09-12.17	Denso comp./Sanden comp. Cond. 12mm /Cond. 16mm	R134a	450 ±25	ND-8/SP-10	PAG46	110/135
3008 (M)		05.16-	Denso comp./Sanden comp.	R1234yf	400/525 ±10	ND-12/SP-A2	PAG46yf	120/80
4007 (VU/W)		02.07-03.13		R134a	500 ±20	SUN PAG56	PAG46	80
4008		05.12-		R134a	500 ±20	SUN PAG56	PAG46	70
5008 I (OU/OE)		09.09-03.17	Denso comp./Sanden comp.	R134a	450 ±20	ND-8/SP-10	PAG46	110/135

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Brand/Model	Engine	Year	Info	Refrigerant ± gr	OE Oil	ISO Oil	± 10ml
5008 I (0U/OE)		09.09-03.17	Cond. 12mm / <b>Cond. 16mm</b> Denso comp./ <b>Sanden comp.</b>	R1234yf 475/ <b>500</b> ±10	ND-12/ <b>SP-A2</b>	PAG46yf	110/ <b>135</b>
5008 II		12.16-	Cond. 12mm / <b>Cond. 16mm</b>	R1234yf 450/ <b>525</b> ±10	SP-A2	PAG46yf	80
Bipper (AA)/Bipper Tepee		02.08-09.15		R134a 500 ±25	SP-10	PAG46	120
Boxer I (244)		04.02-06.06	<b>+ Rear evap.</b>	R134a 550/ <b>700</b> ±25	SP-10	PAG46	135/ <b>200</b>
Boxer I (244)		04.02-06.06	+ Roof top unit	R134a 1400 ±25	SP-10	PAG46	200
Boxer II (250)		04.06-	<b>+ Rear evap.</b>	R134a 550/ <b>950</b> ±25	SP-10	PAG46	150/ <b>200</b>
Boxer II (250)		04.06-	+ Roof top unit	R134a 1600 ±25	SP-10	PAG46	200
Expert I (222/223/224)		01.01-12.06		R134a 950 ±25	SP-10	PAG46	135
Expert II /Expert Tepee (229/VF3A/VF3U/VF3X)	Petrol	01.07-	<b>+ Rear evap.</b>	R134a 540/ <b>950</b> ±25	SP-10	PAG46	135/ <b>200</b>
Expert II /Expert Tepee (229/VF3A/VF3U/VF3X)	Petrol	01.07-	Long wheel base/ + Rear evap.	R134a 1075 ±25	SP-10	PAG46	200
Expert II /Expert Tepee (229/VF3A/VF3U/VF3X)	Diesel	01.07-	<b>+ Rear evap.</b>	R134a 540/ <b>850</b> ±25	SP-10	PAG46	135/ <b>175</b>
Expert II /Expert Tepee (229/VF3A/VF3U/VF3X)	Diesel	01.07-	Long wheel base/ + Rear evap.	R134a 950 ±25	SP-10	PAG46	175
iOn	Electric	11.10-		R134a 325 ±20	MA68EV	POE	100
Partner I/Ranch (5/5F)		05.96-12.02		R134a 725 ±25	SP-10	PAG46	135
Partner I/Ranch(5/5F) Facelift		01.03-12.09		R134a 575 ±25	SP-10	PAG46	135
Partner II /Partner Tepee		04.08-06.18		R134a/ <b>R1234yf</b> 450 ±20/ <b>425 ±10</b>	SP-10/ <b>SP-A2</b>	PAG46/ <b>PAG46yf</b>	135
Partner Box (K9)/Rifter		09.18-	Cond. 19 dm³/Comp. Sanden/ <b>+ Rear evap.</b>	R1234yf 450/ <b>775</b> ±10	SP-A2	PAG46yf	60/ <b>See OE!</b>
Partner Box (K9)/Rifter		09.18-	Cond. 23 dm³/Comp. Jianshe/ <b>+ Rear evap.</b>	R1234yf 650/ <b>950</b> ±10	VC200YF	PAG100yf	135/ <b>See OE!</b>
RCZ		03.10-12.15	Denso comp./ <b>Sanden comp.</b>	R134a 425 ±20	ND-8/ <b>SP-10</b>	PAG46	110/ <b>135</b>
Traveller (V)		04.16-	Cond. 19 dm³/Comp. Sanden/ <b>+ Rear evap.</b>	R1234yf 450/ <b>775</b> ±10	SP-A2	PAG46yf	60/ <b>See OE!</b>
Traveller (V)		04.16-	Cond. 23 dm³/Comp. Jianshe/ <b>+ Rear evap.</b>	R1234yf 650/ <b>975</b> ±10	VC200YF	PAG100yf	135/ <b>See OE!</b>
<b>PORSCHE</b>							
718 (982)		04.16-		R1234yf See OE!	ND-12	PAG46yf	See OE!
911 (993)		10.93-09.97		R134a 840 ±20	ND-8	PAG46	180
911 (996)		09.97-08.05		R134a 900 ±25	ND-8	PAG46	180
911 (997)		07.04-12.12		R134a 875 ±25	ND-8	PAG46	180
911 (991)		12.11-		R134a/ <b>R1234yf</b> See OE!	SP-A2	PAG46yf	100
911 (992)		01.19-		R134a/ <b>R1234yf</b> See OE!	SP-A2	PAG46yf	100
Boxter (986)		09.96-12.04		R134a 850 ±25	ND-8	PAG46	190
Boxster/Cayman (987)		11.04-03.12		R134a 900 ±25	ND-8	PAG46	190
Boxter/Cayman (981)		04.12-		R134a 850 ±25	ND-8	PAG46	150
Carrera GT (980)		07.03-12.06		R134a 600 ±25	ND-8	PAG46	150
Cayenne I (9PA)		09.02-09.10	<b>+ Rear evap.</b>	R134a 700/ <b>1150</b> ±25	ND-8	PAG46	180/ <b>250</b>
Cayenne II (92A)		06.10-04.17	<b>+ Rear evap.</b>	R134a 850/ <b>1100</b> ±20	ND-8	PAG46	150/ <b>220</b>
Cayenne III (9YA)		05.17-	<b>+ Rear evap.</b>	R1234yf See OE!	ND-12	PAG46yf	See OE!
Macan (95B)		02.14-		R134a/ <b>R1234yf</b> 550/ <b>520</b> ±15	ND-8/ <b>ND-12</b>	PAG46/ <b>PAG46yf</b>	110
Panamera I (970)	Hybrid	09.09-10.16		R134a 580/ <b>850</b> ±15	ND-8/ <b>ND-11</b>	PAG46/ <b>POE</b>	140/ <b>160</b>
Panamera II (971)	Hybrid	05.16-		R1234yf See OE!	ND-12	PAG46yf	See OE!
<b>RENAULT</b>							



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Brand/Model	Engine	Year	Info	Refrigerant	± gr	OE Oil	ISO Oil	± 10ml
Avantime (DE0)		09.01-05.03	Sanden SD7 comp./Delphi V5 comp.	R134a	870/800 ±35	SP-10/RL488	PAG46/PAG150	135/220
Captur (H5/J5)		06.13-	Valeo VSC14EC comp.	R134a/R1234yf	450/430 ±35	ZXL100PG/VC100yf	PAG46/PAG46yf	100
Clio II /Symbol I/Thalia I (BB/CB0/LB/SB0)		09.98-2005	Sanden SD6 comp./Sanden SD7 comp.	R134a	650/710 ±35	SP-10	PAG46	135
Clio III /Symbol II/Thalia II (BR0/CR0/LU/SB/SR)		05.05-	Sanden comp./Delphi CVC comp.	R134a	510 ±35	SP-10/DH-PS	PAG46	135/150
Clio IV /Symbol III/Thalia III (BH/LK/KH)		11.12-		R134a/R1234yf	430 ±35	ZXL100PG	PAG46	100
Espace III (JE0)	1.9 dTi/2.2 TD	11.96-10.02		R134a	720 ±35	SP-10	PAG46	135
Espace III (JE0)	2.0i/3.0i V6/2.2 dCi	11.96-10.02		R134a	820 ±30	SP-10	PAG46	135
Espace III (JE0)	3.0i V6 24V	11.96-10.02		R134a	890 ±30	SP-10	PAG46	135
Espace IV (JK0/1)		11.02-12.14	Delphi comp./Denso+Calsonic comp.	R134a	1000 ±35	DH-PS	PAG46	200/220
Espace V (JR)		02.15-	+ Rear evap.	R1234yf	480/700 ±35	ND-12	PAG46yf	110/180
Fluence (L3)	Electric	02.10-		R134a	530/690 ±35	ZXL100PG/ND-11	PAG100/POE	80/120
Kadjar (HA/HL)		06.15-		R1234yf	500 ±25	ND-12	PAG46yf	110
Kangoo I (FC0/KC0)		08.97-12.09		R134a	660 ±35	SP-10	PAG46	135
Kangoo II (FW0/KW0)		02.08-		R134a/R1234yf	550 ±35	SP-10/SP-A2	PAG46/PAG46yf	150
Koleos I (HY)		09.08-06.15		R134a	550 ±35	SP-10	PAG46	120
Koleos II (HC)		08.16-		R1234yf	See OE!	ND-12	PAG46yf	See OE!
Laguna I (B56/556/K56)		11.93-03.01		R134a	700 ±35	SP-10	PAG46	135
Laguna II (BG0/KG0)	3.0i V6 24V	03.01-09.07	Delphi V5 comp./Sanden SD7V16 comp.	R134a	650 ±35	RL488/SP-10	PAG46/PAG150	265/135
Laguna III (BT0/KT0)		10.07-12.15		R134a	650 ±35	ZXL100PG	PAG46	150
Latitude (L70)		07.10-2015		R134a	600 ±25	ZXL100PG	PAG46	120
Master II (ED/FD/HD/JD/UD)		03.98-10.03	Delphi comp./ + Rear evap.	R134a	850/1400 ±25	RL488	PAG150	220/260
Master II (ED/FD/HD/JD/UD)		11.03-12.09	Delphi comp./ + Rear evap.	R134a	750/1200 ±25	RL488	PAG150	220/260
Master II (ED/FD/HD/JD/UD)		03.98-10.03	Sanden comp./ + Rear evap.	R134a	850/1400 ±25	SP-10	PAG46	135/180
Master II (ED/FD/HD/JD/UD)		11.03-12.09	Sanden comp./ + Rear evap.	R134a	750/1200 ±25	SP-10	PAG46	135/180
Master III (EV/HV/FV/JV/UV)		02.10-	+ Rear evap.	R134a	580/1100 ±35	ZXL100PG	PAG46	120/180
Master III (EV/HV/FV/JV/UV)		02.10-	+ Roof top unit	R134a	580/1700 ±35	ZXL100PG	PAG46	120/180
Megane I (BA0/DA0/EA0/KA0/LA0/SA0)	1.9 dCi	08.95-12.04	Sanden comp./Delphi V5 comp.	R134a	750/780 ±35	SP-10/RL488	PAG46/PAG150	135/220
Megane II (BM0/CM0/EM0/KM0/LM0)		09.02-08.12		R134a	550 ±35	RL488	PAG150	150
Megane III (BZ0/DZ0/KZ0)	2.0 CVT	11.08-	Denso comp./Valeo DCS-17EC comp.	R134a	480/510 ±35	ND-8/ZXL100PG	PAG46	100/120
Megane IV (B9A/K9A)		11.15-		R1234yf	480 ±35	SP-A2	PAG46yf	70
Modus/Grand Modus (F/JP0)		12.04-12.12		R134a	510 ±35	SP-10	PAG46	135
Scenic I (JA0/FA0)		11.96-08.03		R134a	680 ±35	RL488	PAG150	220
Scenic II/Grand Scenic II (JM0)		06.03-04.09		R134a	550 ±35	RL488	PAG150	150
Scenic III/Grand Scenic III (JZ0)	2.0 CVT	04.09-09.16	Denso comp./Valeo DCS-17EC comp.	R134a	480/510 ±35	ND-8/ZXL100PG	PAG46	100/120
Scenic IV (J9)		09.16-		R1234yf	480 ±35	SP-A2	PAG46yf	70
Talisman (L2M/KP)		06.15-		R1234yf	480 ±35	ND-12	PAG46yf	110
Trafic II (EL/FL/JL)		03.01-08.14	Delphi V5 comp./ + Rear evap.	R134a	750/1150 ±35	RL488	PAG150	220/260
Trafic II (EL/FL/JL)	2.0 DCi	08.06-08.14	Zexel comp./+ Rear evap.	R134a	650/950 ±35	ZXL100PG	PAG46	220/260
Renault Trafic III (EG/FG/JG)		05.14-	Zexel comp./+ Rear evap.	R134a	590/880 ±20	ZXL100PG	PAG46	120/220

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Brand/Model	Engine	Year	Info	Refrigerant	± gr	OE Oil	ISO Oil	± 10ml
Renault Trafic III (EG/FG/JG)		05.14-	Zexel comp./+ Rear evap.	R1234yf	540/850 ±20	VC100yf	PAG46yf	120/220
Twingo II (CN0)		03.07-08.14	Sanden comp./Multi-Exchanger	R134a	430/510 ±35	SP-10	PAG46	135
Twingo III (BCM)		09.14-		R134a/R1234yf	475/430 ±35	VC200yf	PAG100yf	170
Vel Satis (BJ0)		06.02-08.09		R134a	650 ±35	RL488	PAG150	220
Vel Satis (BJ0)		06.02-08.09	Zexel comp./Denso comp.	R134a	650 ±35	PAG46	PAG46	220/235
Wind (E4M)		07.10-06.13		R134a	510 ±35	SP-10	PAG46	135
Zoe	Electric	06.12-		R1234yf	1000 ±35	ND-11	POE	120
<b>ROVER / MG</b>								
25 (RF)/Streetwise/ZR		09.99-05.05		R134a	640 (RHD 560) ±25	SP-10	PAG46	135
45 (RT)/ZS		02.00-05.05		R134a	640 (RHD 560) ±25	SP-10	PAG46	135
75 (RJ)/ZT/ZT-T		02.99-05.05		R134a	475 ±25	ND-8	PAG46	120
MG F/TF(RD)		03.95-05.05		R134a	620 ±10	PAG100	PAG100	170
<b>SAAB</b>								
9-3 I (YS3D)		02.98-08.03	Sanden comp./Delphi V5 comp.	R134a	800 ±25	SP-10/DH-PR	PAG46/PAG100	150/220
9-3 II + 9-3X (YS3F)		09.02-02.15		R134a	680 ±20	SP-10	PAG46	135
9-4X		02.11-12.11		R134a	See OE!	SP-10	PAG46	See OE!
9-5 I (YS3E)		09.97-12.03	Denso comp.	R134a	875 ±25	ND-8	PAG46	145
9-5 I (YS3E)		01.04-12.09	Sanden comp.	R134a	825 ±25	SP-10	PAG46	120
9-5 II (YS3G)		01.10-01.12	Sanden comp./Delphi comp.	R134a	600 ±20	SP-10/DH-PS	PAG46	110/150
9-7X		12.05-07.12		R134a	See OE!	PAG46	PAG46	See OE!
<b>SEAT</b>								
Alhambra I (7V8/7V9)		04.96-05.00	+ Rear evap.	R134a	975/1375 ±25	SP-10	PAG46	135/240
Alhambra I (7V8/7V9) Facelift		06.00-03.10	+ Rear evap.	R134a	725/1075 ±25	SP-10	PAG46	135/240
Alhambra II (710/711)		06.10-12.16	Denso comp./ + Rear evap.	R134a	600/950 ±25	ND-8	PAG46	140/240
Alhambra II (710/711)		06.10-12.16	Sanden comp./ + Rear evap.	R134a	600/950 ±25	SP-10	PAG46	110/210
Alhambra II (710/711)		12.17-	Denso comp./ + Rear evap.	R1234yf	500/825 ±15	ND-12	PAG46yf	140/240
Alhambra II (710/711)		12.17-	Sanden comp./ + Rear evap.	R1234yf	500/825 ±15	SP-A2	PAG46yf	110/210
Altea (5P1)/Altea XL (5P5/5P8)		03.04-07.15	Denso comp.	R134a	525 ±25	ND-8	PAG46	140
Altea (5P1)/Altea XL (5P5/5P8)		03.04-07.15	Delphi/Sanden/Zexel comp.	R134a	525 ±25	DH-PS/SP-10/ZXL100PG	PAG46	110/120
Arona (KJ7)		07.17-		R1234yf	See OE!	ND-12	PAG46yf	See OE!
Arosa (6H)		05.97-06.04	Denso/Sanden comp.	R134a	725 ±25	ND-8/SP-10	PAG46	130/150
Ateca (KH7)		04.16-	Delphi/Denso/Sanden comp.	R1234yf	460 ±15	DH-PSD1/ND-12/SP-A2	PAG46yf	110/75
Exeo +ST (3R2/3R5)		12.08-05.13	Denso 6SEU14/Denso 7SEU17 comp.	R134a	500 ±15	ND-8	PAG46	90/120
Ibiza II (6K1)/Cordoba (6K2/6K5)		02.93-12.02	Sanden SD6V12 comp.	R134a	775 ±25	SP-10	PAG46	135
Ibiza III (6L1)/Cordoba (6L2)		02.02-11.09	Sanden PXE13 comp.	R134a	550 ±25	SP-10	PAG46	120
Ibiza III (6L1)/Cordoba (6L2)		02.02-11.09	Denso 6SEU12/Denso 6SEU14 comp.	R134a	550 ±25	ND-8	PAG46	80/140
Ibiza IV +ST (6J1/6J5/6J8/6P1/6P5/6P8)		03.08-	Denso 6SEU14/6SES14 comp.	R134a/R1234yf	500/450 ±15	ND-8/ND-12	PAG46/PAG46yf	90/110
Ibiza IV +ST (6J1/6J5/6J8/6P1/6P5/6P8)		03.08-	Sanden PXE14 comp./Delphi comp.	R134a/R1234yf	500/450 ±15	SP-A2/DH-PSD1	PAG46/PAG46yf	75/110
Ibiza V (6F/KJ1)		01.17-	Delphi CVC/Denso 6SES14/Sanden PXE14 comp.	R1234yf	450 ±15	DH-PSD1/ND-12/SP-A2	PAG46yf	75/110

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Brand/Model	Engine	Year	Info	Refrigerant	± gr	OE Oil	ISO Oil	± 10ml
Inca (6K9)		11.95-06.03		R134a	865 (RHD 915) ±25	PAG46	PAG46	125
Leon I (1M1)/Toledo II (1M2)		04.99-06.06	Sanden SD7V16/Zexel comp.	R134a	775 ±25	SP-10/ZXL100PG	PAG46	125/135
Leon II (1P1)/Toledo III (5P2)		04.04-12.12	>> See Altea (5P1)!					
Leon III +ST (5F1/5F5/5F8)/Toledo IV (KG3)		07.12-	Denso 6SES14/Sanden PXE14 comp.	R134a/R1234yf	500/460 ±15	ND-12/SP-A2	PAG46/PAG46yf	75/110
Mii (KF1)		10.11-		R134a/R1234yf	380 ±10/330 ±15	SP-10/SP-A2	PAG46/PAG46yf	120
Terraco (KN2)		09.18-	Denso/Delphi/Sanden comp.	R1234yf	460 ±10	ND-12/DH-PSD1/SP-A2	PAG46yf	75/110
<b>SKODA</b>								
Citigo		10.11-		R134a/R1234yf	380 ±10/330 ±15	SP-10/SP-A2	PAG46/PAG46yf	120
Fabia I (6Y2/6Y3/6Y5)		08.99-03.08	Denso 6SEU12/Denso 6SEU14 comp.	R134a	550 ±25	ND-8	PAG46	80/140
Fabia II (542/545)		12.06-12.14	Denso 6SEU14/6SES14 comp.	R134a/R1234yf	500/450 ±15	ND-8/ND-12	PAG46/PAG46yf	90/110
Fabia II (542/545)		12.06-12.14	Sanden PXE14 comp./Delphi comp.	R134a/R1234yf	500/450 ±15	SP-A2/DH-PSD1	PAG46/PAG46yf	75/110
Fabia III (NJ3/NJ5)		08.14-	Delphi CVC/Denso 6SES14/Sanden PXE14 comp.	R134a/R1234yf	475/450 ±15	DH-PSD1/ND-12/SP-A2	PAG46/PAG46yf	75/110
Kamiiq (NW4)		07.19-	Delphi CVC/Denso 6SES14/Sanden PXE14 comp.	R1234yf	450 ±15	DH-PSD1/ND-12/SP-A2	PAG46yf	75/110
Karoq (NU7)		07.17-	Delphi CVC/Denso 6SES14/Sanden PXE14 comp.	R1234yf	460 ±15	DH-PSD1/ND-12/SP-A2	PAG46yf	75/110
Kodiaq (NS7/NV7)		10.16-	Denso/Delphi/Sanden comp.	R1234yf	460 ±10	ND-12/DH-PSD1/SP-A2	PAG46yf	75/110
Octavia I (1U2/1U5)		09.96-12.10		R134a	775 ±25	SP-10	PAG46	135
Octavia II (1Z3/1Z5)		02.04-06.13	Denso 6SEU14/7SEU17 comp.	R134a	525 ±25	ND-8	PAG46	90/140
Octavia II (1Z3/1Z5)		02.04-06.13	Denso 7SEU16+7SEU17 comp. 1K0820803F	R134a	525 ±25	ND-8	PAG46	180
Octavia II (1Z3/1Z5)		02.04-06.13	Delphi CVC/Sanden PXE/Zexel comp.	R134a	525 ±25	DH-PS/SP-10/ZXL100PG	PAG46	110/120
Octavia III (5E3/5E5)		11.12-	+ Modine cond./Denso/Delphi comp.	R134a	470 ±20/500 ±15	ND-8/RL-897	PAG46	110
Octavia III (5E3/5E5)		11.12-	+ Modine cond./Sanden comp.	R134a	470 ±20/500 ±15	SP-10	PAG46	75
Octavia III (5E3/5E5)		11.12-	Denso/Delphi/Sanden comp.	R1234yf	460 ±10	ND-12/DH-PSD1/SP-A2	PAG46yf	75/110
Rapid (NH1/NH3)		07.12-	+ Modine cond./Denso/Delphi comp.	R134a	470 ±20/500 ±15	ND-8/RL-897	PAG46	110
Rapid (NH1/NH3)		07.12-	+ Modine cond./Sanden comp.	R134a	470 ±20/500 ±15	SP-10	PAG46	75
Rapid (NH1/NH3)		07.12-	Denso/Delphi/Sanden comp.	R1234yf	450 ±10	ND-12/DH-PSD1/SP-A2	PAG46yf	75/110
Roomster +Praktik (5J)		03.06-05.15	>> See Fabia II					
Scala		02.19-	Denso/Delphi/Sanden comp.	R1234yf	450 ±10	ND-12/DH-PSD1/SP-A2	PAG46yf	75/110
Superb I (3U4)		12.01-03.08		R134a	600 ±25	ND-8	PAG46	245
Superb II (3T4/3T5)		03.08-05.15	>> See Octavia II (1Z3/1Z5)!					
Superb III (3V3/3V5)		03.15-	>> See Octavia III (5E3/5E5)!					
Yeti (5L)		05.09-12.17	Denso 6SEU14/7SEU17 comp.	R134a/R1234yf	525 ±25/460 ±15	ND-8/ND-12	PAG46/PAG46yf	90/140
Yeti (5L)		05.09-12.17	Delphi CVC/Sanden PXE/Zexel comp.	R134a/R1234yf	525 ±25/460 ±15	DH-PSD1/SP-A2/VC100yf	PAG46yf	110/120
<b>SMART (MCC)</b>								
Forfour (454)		01.04-06.06		R134a	430 ±20	ND-8	PAG46	110
Fortwo Cabrio/City Coupe/Crossblade (450)		07.98-12.02		R134a	600 ±10	SK-20	PAG100	180
Fortwo Cabrio/Fortwo City (450/451)		01.03-11.14		R134a	425 ±25	SK-20	PAG100	180
Fortwo/Forfour (453)	0.9 + 1.0 Petrol	07.14-		R134a/R1234yf	475/430 ±35	VC200yf	PAG100yf	170
Roadster/Roadster Coupe (452)		04.03-11.05		R134a	620 ±10	SK-20	PAG100	180

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Brand/Model	Engine	Year	Info	Refrigerant	± gr	OE Oil	ISO Oil	± 10ml
<b>SSANGYONG</b>								
Actyon I +Sports (QJ)		11.05-07.12		R134a	650 ±30	ZXL200PG	PAG100	200
Korando (KJ)/Musso (FJ)		12.96-11.06		R134a	700 ±50	ZXL200PG	PAG100	200
Korando (CK)/Musso Sports		08.04-		R134a	430 ±30	ZXL200PG	PAG100	See OE!
Korando (C300)		02.19-		R1234yf	See OE!	PAG46yf	PAG46yf	See OE!
Kyron		05.05-		R134a	650 ±30	ZXL200PG	PAG100	200
Musso (QK)		01.18-		R1234yf	550 ±30	PAG46yf	PAG46yf	See OE!
Rexton I & II (GAB)		04.02-06.12	+ Rear evap.	R134a	850/1200 ±50	ZXL200PG	PAG100	200/265
Rexton W		07.12-06.17	ECC/ + Rear evap.	R134a	750/1200 ±50	ZXL200PG	PAG100	200/265
Rexton W		07.12-06.17	+ Rear evap.	R134a	850/1200 ±50	ZXL200PG	PAG100	220/265
Rexton (Y400)		07.17-		R1234yf	See OE!	PAG46yf	PAG46yf	See OE!
Rexton Sports XL		01.19-		R1234yf	See OE!	PAG46yf	PAG46yf	See OE!
Rodius I/Stavic		05.05-05.13		R134a	1050 ±30	ZXL200PG	PAG100	150
Rodius II/Stavic		06.13-		R134a	1050 ±30	ZXL200PG	PAG100	200
Tivoli/XLV		03.15-		R1234yf	500 ±30	PAG46yf	PAG46yf	120
<b>SUBARU</b>								
BRZ		06.12-		R134a/R1234yf	390 ±20/350 ±10	ND-8/ND-12	PAG46/PAG46yf	80
Forester (SF)		03.97-09.02		R134a	650 ±50	ZXL200PG	PAG100	175
Forester (SG)		06.02-06.08		R134a	600 ±50	ZXL200PG	PAG100	140
Forester (SH)		12.07-09.13		R134a	500 ±50	ZXL200PG	PAG100	105
Forester (SJ)		03.13-2019		R1234yf	475 ±25	VC200yf	PAG100yf	105
Forester (SK)	Hybrid	04.18-		R1234yf	See OE!	POE	POE	See OE!
Impreza (GD/GG)		09.99-06.09		R134a	500 ±50	DH-PR/ZXL200PG	PAG100	250
Impreza (GE/GH/GR/GV)		03.07-05.14		R134a	500 ±30	ZXL200PG	PAG100	80
Impreza (GJ/GP)		10.11-		R134a/R1234yf	475 ±25/450 ±30	ZXL200PG/VC200yf	PAG100/PAG100yf	80
Impreza (GT)		10.16-		R1234yf	See OE!	PAG46yf	PAG46yf	See OE!
Justy III (G3X)		09.03-12.06		R134a	430 ±20	SUN PAG56	PAG46	90
Justy IV		01.07-02.10		R134a	300 ±30	ND-8	PAG46	80
Legacy III/Outback (BE/BH)		10.98-08.03		R134a	650 ±50	ND-8	PAG100	150
Legacy IV/Outback (BL/BP)		09.03-06.10		R134a	470 ±30	ND-8	PAG46	145
Legacy V/Outback (BM/BR)		06.08-12.14		R134a	425 ±25	ND-8	PAG46	120
Legacy VI/Outback (BN/BS)		10.14-	Comp. with magnetic clutch	R1234yf	425 ±25	ND-12	PAG46yf	75/140
Levorg		03.15-		R134a/R1234yf	475 ±25/450 ±30	ZXL200PG/VC200yf	PAG100/PAG100yf	80
Trezia		03.11-		R134a	360 ±30	ND-8	PAG46	65
Tribeca (B9)		01.05-2010	+ Rear evap.	R134a	600/870 ±30	ND-8	PAG46	150/180
XV (GP)		03.12-		R134a/R1234yf	475 ±25/450 ±30	ZXL200PG/VC200yf	PAG100/PAG100yf	80
XV (GT)		04.17-		R1234yf	See OE!	PAG46yf	PAG46yf	See OE!
<b>SUZUKI</b>								
Alto IV (FF)		09.04-12.08		R134a	400 ±50	ND-8	PAG46	105

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Brand/Model	Engine	Year	Info	Refrigerant	± gr	OE Oil	ISO Oil	± 10ml
Alto V (GF)		01.09-		R134a	370 ±20	ND-8	PAG46	65
Baleno (EG)		07.95-05.02		R134a	600 ±20	PAG46	PAG46	150
Baleno (EW/FW)		02.16-		R1234yf	See OE!	PAG46yf	PAG46yf	See OE!
Celerio (LF)		03.14-		R134a/R1234yf	380/350 ±20	VC200yf	VC200yf	80
Grand Vitara I (FT/HT/GT)	1.6i/2.0i/2.5i/2.0TD	03.98-08.06	Denso comp./Seiko Seiki comp.	R134a	440 ±50	ND-8/SK-20	PAG46/PAG100	120/140
Grand Vitara I XL-7 (FT/GT)	2.7i V6	06.01-08.03		R134a	500 ±50	ZXL100PG	PAG46	160
Grand Vitara II (JT/TE/TD)		04.05-		R134a	530 ±30	DH-PS	PAG46	150
Ignis I (FH)		10.00-12.05		R134a	360 ±30	S10X	PAG46	90
Ignis II (MH)	1.3 DDiS	08.03-12.07	Sanden comp.	R134a	430/480 ±20	SUN PAG56/SP-10	PAG46	90/100
Ignis III (MF)		10.16-		R1234yf	See OE!	PAG46yf	PAG46yf	See OE!
Jimny II (FJ/SN)	1.5 DDiS	09.98-04.18		R134a	430/550 ±30	PAG46	PAG46	120
Jimny III (A6G/GJ)		07.18-		R1234yf	See OE!	PAG46yf	PAG46yf	See OE!
Kizashi (FR)		10.10-2016		R134a	530 ±30	DH-PS	PAG46	150
Liana (ER/RH)	1.4 DDiS	07.01-12.07	Sanden comp.	R134a	500 ±30	ND-8/SP-10	PAG46	100
Splash (EX)	1.3 CDTi	01.08-11.14		R134a	370 ±20	ZXL200PG/SP-10	PAG100/PAG46	80
Swift III (MZ/EZ)	1.3 DDiS	02.05-08.10	Type EZ	R134a	370 ±20	PAG46	PAG46	50/100
Swift IV (FZ/NZ)		10.10-2017		R134a	370 ±20	S10X	PAG46	50
Swift V (AZ)		01.17-		R1234yf	See OE!	PAG46yf	PAG46yf	See OE!
SX4 (EY/GY/RW)		06.06-06.14		R134a	430 ±20	ND-8	PAG46	90
SX4 S-Cross (JY)		08.13-		R134a/R1234yf	400/425 ±20	ND-8/ND-12	PAG46/PAG46yf	80
Vitara (LY)		02.15-		R134a/R1234yf	400/425 ±20	ND-8/ND-12	PAG46/PAG46yf	80
Wagon R+ (MM)		05.00-12.06		R134a	475 ±25	SP-10	PAG46	120
<b>TESLA</b>								
Model 3 (5YJ3)	Electric	01.17-		R1234yf	See OE!	ND-11	POE	See OE!
Model S (5YJS)	Electric	09.12-		R1234yf	740 ±25	ND-11	POE	150
Model X (5YJX)	Electric	09.13-		R1234yf	See OE!	ND-11	POE	See OE!
Roadster	Electric	03.08-		R134a	See OE!	ND-11	POE	See OE!
<b>TOYOTA</b>								
4 Runner (N18)		11.95-11.02	RHD	R134a	700/750 ±50	ND-8	PAG46	See OE!
Auris (E15)	1.8i Hybrid	10.06-09.12		R134a	440/470 ±30	ND-8/ND-11	PAG46/POE	60/135
Auris +Touring (E18)	1.6+2.0 D-4D	10.12-12.18		R134a/R1234yf	450 ±50/420 ±30	ND-8/ND-12	PAG46/PAG46yf	75/90
Auris +Touring (E18)	1.8i Hybrid	10.12-12.18		R134a/R1234yf	470 ±50/500 ±30	ND-11	POE	130
Avensis (T22)		09.97-02.03		R134a	530 ±30	ND-8	PAG46	140
Avensis (T25)		03.03-11.08		R134a	440 ±30	ND-8	PAG46	90
Avensis (T27)		11.08-10.18		R134a/R1234yf	440 ±50/410 ±30	ND-8/ND-12	PAG46/PAG46yf	90
Avensis Verso (ACM2)		05.01-12.10	+ Rear evap.	R134a	500/800 ±30	ND-8	PAG46	120/200
Aygo I (B1)	1.0i/1.4 HDi	07.05-05.14		R134a	450/500 ±25	ZXL200PG	PAG100	80
Aygo II (B4)		05.14-		R134a/R1234yf	380 ±20/350 ±10	VC200YF	PAG100yf	80
C-HR (X1)	1.8+2.0i Hybrid	10.16-		R1234yf	See OE!	ND-11/ND-12	POE/PAG46yf	See OE!

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Brand/Model	Engine	Year	Info	Refrigerant	± gr	OE Oil	ISO Oil	± 10ml
Camry (V30)		08.01-11.06		R134a	550 ±50	ND-8	PAG46	120
Camry (V70)	2.5i Hybrid	06.17-		R1234yf	See OE!	ND-11	POE	See OE!
Celica (T23)		08.99-09.05		R134a	430 ±30	ND-8	PAG46	100
Corolla (E12)		01.01-02.07		R134a	450 ±30	ND-8	PAG46	60
Corolla (E14/E15)		10.06-07.14		R134a	440 ±30	ND-8	PAG46	90
Corolla (E17/E18)		06.13-05.19		R134a	440 ±30	ND-8	PAG46	80
Corolla (E21)	1.8+2.0i Hybrid	10.18-		R1234yf	See OE!	ND-11/ND-12	POE/PAG46yf	See OE!
Corolla Verso (E12)		08.01-07.04		R134a	530 ±30	ND-8	PAG46	60
Corolla Verso (ZER/ZZE)		04.04-03.09		R134a	440 ±30	ND-8	PAG46	90
GT 86 (ZN6)		03.12-		R134a/R1234yf	390 ±20/350 ±10	ND-8/ND-12	PAG46/PAG46yf	80
Hilux V1 (RZN)		08.97-07.05		R134a	550 ±50	ND-8	PAG46	140
Hilux VII (N25/N2)		08.05-05.15	Denso 10S11C/Denso 10S15C comp.	R134a	450 ±30	ND-8	PAG46	80/120
Hilux VIII (N1)		05.15-		R1234yf	See OE!	ND-12	PAG46yf	See OE!
IQ (J1)		01.09-12.15		R134a	360 ±30	ND-8	PAG46	100
Land Cruiser 100/Land Cruiser Amazon (J1)		01.98-07.08	With coolbox	R134a	750/850 ±50	ND-8	PAG46	140
Land Cruiser 100/Land Cruiser Amazon (J1)		01.98-07.08	+ Rear evap.	R134a	950 ±50	ND-8	PAG46	220
Land Cruiser 100/Land Cruiser Amazon (J1)		01.98-07.08	With coolbox/ + Rear evap.	R134a	1050 ±50	ND-8	PAG46	220
Land Cruiser 200 (J2)		08.07-	16mm PF cond./ + Rear evap.	R134a	780/920 ±30	ND-8	PAG46	120/180
Land Cruiser 200 (J2)		08.07-	16mm PF cond. + Coolbox + Rear evap.	R134a	970 ±30	ND-8	PAG46	180
Land Cruiser 200 (J2)		08.07-	22mm cond./ + Rear evap.	R134a	870/960 ±30	ND-8	PAG46	120/180
Land Cruiser 200 (J2)		08.07-	22mm cond./ + Coolbox + Rear evap.	R134a	1010 ±30	ND-8	PAG46	180
Land Cruiser Prado (J12)		09.02-12.10	With coolbox	R134a	650/750 ±30	ND-8	PAG46	120
Land Cruiser Prado (J12)		09.02-12.10	+ Rear evap.	R134a	800 ±30	ND-8	PAG46	180
Land Cruiser Prado (J12)		09.02-12.10	With coolbox/ + Rear evap.	R134a	900 ±30	ND-8	PAG46	180
Land Cruiser Prado (J15)		07.09-	With coolbox	R134a	550/600 ±30	ND-8	PAG46	120
Land Cruiser Prado (J15)		07.09-	+ Rear evap.	R134a	770 ±30	ND-8	PAG46	180
Land Cruiser Prado (J15)		07.09-	With coolbox/ + Rear evap.	R134a	800 ±30	ND-8	PAG46	180
Mirai (JPD1)	Fuel-Cell/Electric	10.14-		R1234yf	See OE!	See OE!	See OE!	See OE!
MR2 III (W3)		10.99-06.07		R134a	500 ±30	ND-8	PAG46	120
Previa II/Estima (R3)		02.00-02.06	+ Rear evap.	R134a	700/880 ±30	ND-8	PAG46	120/195
Previa III/Estima (R5)		10.05-	+ Rear evap.	R134a	See OE!	ND-8	PAG46	160/210
Prius I (W1)	1.5i Hybrid	05.00-01.04		R134a	500 ±50	ND-8	PAG46	120
Prius II (W2)	1.5i Hybrid	09.03-12.09		R134a	450 ±30	ND-11	POE	130
Prius III (W3)	1.8i Hybrid	06.08-		R134a	470 ±30	ND-11	POE	130
Prius/Prius Plus (W4/W5)	1.8i Hybrid	05.11-		R134a/R1234yf	470 ±30	ND-11	POE	130
ProAce +Verso (MD/MP)		02.16-	Cond. 19 dm <sup>3</sup> /Sanden comp./ + Rear evap.	R1234yf	450/775 ±10	SP-A2	PAG46yf	60/See OE!
ProAce +Verso (MD/MP)		02.16-	Cond. 23 dm <sup>3</sup> /Jianshe comp./ + Rear evap.	R1234yf	650/975 ±10	VC200YF	PAG100yf	135/See OE!
RAV4 II (A2)		05.00-11.05		R134a	510 ±30	ND-8	PAG46	100
RAV4 III (A3)	2.4i+3.5i	06.05-12.13		R134a	430 ±30	ND-8	PAG46	90/160

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Brand/Model	Engine	Year	Info	Refrigerant	± gr	OE Oil	ISO Oil	± 10ml
RAV4 IV (A4)		12.12-12.18		R134a/R1234yf	500 ±50/500 ±30	ND8/ND-12	PAG46/PAG46yf	70
RAV4 IV (A4)	2.5 Hybrid	10.15-12.18		R134a/R1234yf	500 ±50/500 ±30	ND-11	POE	125
RAV4 V (A5)	2.5 Hybrid	12.18-		R1234yf	See OE!	ND-11/ND-12	POE/PAG46yf	See OE!
Supra (DB)		03.19-		R1234yf	See OE!	ND-12	PAG46yf	See OE!
Urban Cruiser II/IST/Scion xD (P1)		07.07-03.16		R134a	360 ±30	ND-8	PAG46	60
Verso (R2)		04.09-08.18		R134a	440 ±30	ND-8	PAG46	90
Verso-S (P12)		11.10-10.16		R134a	360 ±30	ND-8	PAG46	60
Yaris/Vitz (P1)/Yaris Verso (P2)		01.99-12.05		R134a	430 ±30	ND-8	PAG46	60
Yaris/Vitz (P9)		01.05-12.13		R134a	360 ±30	ND-8	PAG46	60
Yaris/Vitz (P13)		12.10-		R134a/R1234yf	360/350 ±30	ND8/ND-12	PAG46/PAG46yf	60
Yaris/Vitz (P13)	1.5i Hybrid	03.12-		R134a/R1234yf	420 ±30	ND-11	POE	130
<b>VAUXHALL &gt; See OPEL / VAUXHALL</b>								
<b>VOLVO</b>								
850 (855)		04.92-10.97		R134a	800 ±25	ZXL200PG	PAG100	160
C30 (533)		10.06-12.12		R134a	530 ±25	ZXL100PG	PAG46	200
C70 I (872/873)		03.97-10.05		R134a	800 ±25	ZXL100PG	PAG46	200
C70 II (542)		03.06-12.13		R134a	530 ±25	ZXL100PG	PAG46	200
S40 I (644)/V40 I (645)		07.95-12.04	Zexel comp.	R134a	900 ±25	ZXL100PG	PAG46	180
S40 I (644)/V40 I (645)	1.8 GDI	03.98-06.04	Mitsubishi comp.	R134a	800 ±25	SUN PAG56	PAG46	120
S40 I (644)/V40 I (645)	1.9 Di	03.99-06.04	Sanden comp.	R134a	875 ±25	SP-10	PAG46	135
S40 II (544)		01.04-12.12		R134a	530 ±25	SP-10	PAG46	200
S60 I (384)		07.00-12.04		R134a	1000 ±25	ZXL100PG	PAG46	180
S60 I (384)		01.05-04.10		R134a	700 ±25	ZXL100PG	PAG46	180
S60 II (134)/V60 I (155/157)/XC60 I (156)	4 cilinder/5 cilinder	05.08-10.18		R134a/R1234yf	800 ±25/750 ±20	SP-10/SP-A2	PAG46/PAG46yf	60/110
S60 II (134)/V60 I (155/157)/XC60 I (156)	5 cil. Diesel	05.08-10.18		R134a/R1234yf	720 ±25/750 ±20	SP-A2/VC100yf	PAG46/PAG46yf	110
S60 III (224)/V60 II (225/227)		02.18-		R134a/R1234yf	700 ±25/650 ±20	SP-10/SP-A2	PAG46/PAG46yf	130
S60 III (224)/V60 II (225/227)	Plug-in Hybrid/Twin Engine	02.18-		R134a/R1234yf	725 ±25/675 ±20	SP-A2	PAG46yf	100
S70 (874)/V70 I (875/876)		12.95-12.98	Zexel DKS15CH comp.	R134a	775 ±25	ZXL100PG	PAG100	160
S70 (874)/V70 I (875/876)		12.98-12.00	Zexel DKS15CH direct mount comp.	R134a	775 ±25	ZXL100PG	PAG46	200
S80 I (184)		05.98-07.06		R134a	1000 ±25	ZXL100PG	PAG46	180
S80 II (124)		03.06-03.16	Sanden PXC16/Zexel DCS17EC comp.	R134a	800 ±25	SP-10/ZXL100PG	PAG46	60/180
S90 I (964)/V90 I (965)		11.96-12.98	Zexel comp.	R134a	900 ±25	ZXL100PG	PAG46	200
S90 I (964)/V90 I (965)		11.96-12.98	Sanden comp.	R134a	900 ±25	SP-10	PAG46	240
S90 II (234)/V90 II (235/236)		03.16-		R134a/R1234yf	700/650 ±25	SP-A2	PAG46yf	60
S90 II (234)/V90 II (235/236)	Plug-in Hybrid/Twin Engine	03.16-		R134a/R1234yf	725/675 ±25	SP-A2	PAG46yf	100
V40 II (525/526)		03.12-07.19	Sanden PXC14/Sanden PXV16 comp.	R134a/R1234yf	625/575 ±20	SP-A2	PAG46yf	60/110
V40 II (525/526)	B4164T4/B4164T3/B4164T	03.12-07.19	Visteon 7VS16A comp.	R134a/R1234yf	625/575 ±20	SP-A2	PAG46yf	150
V50 (545)		04.04-12.12		R134a	530 ±25	SP-10	PAG46	200
V60 I (155/157)	Plug-in Hybrid/Twin Engine	06.12-10.18		R134a/R1234yf	880/820 ±20	SP-A2	PAG46yf	140

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Brand/Model	Engine	Year	Info	Refrigerant	± gr	OE Oil	ISO Oil	± 10ml
V70 II (285)		11.99-12.04		R134a	1000 ±25	ZXL100PG	PAG46	180
V70 II (285)		01.05-12.08		R134a	700 ±25	ZXL100PG	PAG46	180
V70 III (135)		10.07-04.16	Sanden PXC16/Visteon 7VS16/Zexel DCS17EC comp.	R134a	800 ±25	SP-10/ZXL100PG	PAG46	150
V70 III (135)	1.6D	10.07-04.16	Sanden SD7V16 comp.	R134a	800 ±25	SP-10	PAG46	200
XC40 (536)	<b>Plug-in Hybrid/Twin Engine</b>	10.17-		R134a/R1234yf	540/480 ±20	<b>SP-A2</b> /VC100yf	PAG46yf	<b>100</b> /130
XC60 II (246)		03.17-		R134a/R1234yf	700/650 ±20	SP-A2	PAG46yf	130
XC60 II (246)	Plug-in Hybrid/Twin Engine	03.17-		R134a/R1234yf	725/675 ±25	SP-A2	PAG46yf	100
XC70 I Cross Country (295)		10.97-08.07	Zexel DKS17CH/Zexel DKS17D comp.	R134a	775 ±25	ZXL100PG	PAG46	<b>150</b> /180
XC70 II (136)	4 cilinder/5 cil. Diesel	04.07-		R134a	720/800 ±25	SP-10	PAG46	60/110
XC90 I (275)		06.02-12.04	<b>+ Rear evap.</b>	R134a	1000/1300 ±25	ZXL100PG	PAG46	180/200
XC90 I (275)		01.05-12.14	<b>+ Rear evap.</b>	R134a	700/1000 ±25	ZXL100PG	PAG46	180/200
XC90 II (256)		09.14-	<b>+ Rear evap.</b>	R134a	750/1000 ±20	SP-A2	PAG46yf	60/80
XC90 II (256)		09.14-	<b>+ Rear evap.</b>	R1234yf	650/900 ±20	SP-A2	PAG46yf	60/80
XC90 II (256)	Plug-in Hybrid/Twin Engine	06.15-		R134a/R1234yf	1050/975 ±20	SP-A2	PAG46yf	120
<b>VW</b>								
Amarok (2HA/S1B/S6B/S7A/S7B)		09.10-06.15		R134a	525 ±25	ND-8	PAG46	140
Amarok (2HA/S1B/S6B/S7A/S7B)		07.15-		R134a/R1234yf	600 ±25	ND8/ND-12	PAG46/PAG46yf	140
Arteon (3H7)		04.17-	Denso 6SES14/Delphi CVC140/Sanden PXE14 comp.	R1234yf	460 ±15	ND-12/SP-A2	PAG46yf	75/110
Beetle (5C1/5C2/5C7/5C8)		04.11-07.19	<b>&gt;&gt; See Golf V (1K/5K)</b>					
Bora (1J2/1J6)		10.98-05.05	Sanden comp./Zexel comp.	R134a	775 ±25	SP-10/ZXL100PG	PAG46	<b>125</b> /135
Caddy II (9K9A/9K9B)		11.95-01.04		R134a	860 ±15	PAG46	PAG46	115
Caddy III (2KA/2KB/2KJ/2KH/2CA/2CH)		03.04-05.15	Denso 6SEU14/7SEU17 comp.	R134a	525 ±25	ND-8	PAG46	90/140
Caddy III (2KA/2KB/2KJ/2KH/2CA/2CH)		03.04-05.15	Denso 7SEU16+7SEU17 comp. 1K0820803F	R134a	525 ±25	ND-8	PAG46	180
Caddy III (2KA/2KB/2KJ/2KH/2CA/2CH)		03.04-05.15	Delphi CVC/Sanden PXE/Zexel comp.	R134a	525 ±25	DH-PS/SP-10/ZXL100PG	PAG46	110/120
Caddy IV+Alltrack (SAA/SAB/SAH/SAJ)		05.15-	Denso 6SES14/Delphi CVC140/Sanden PXE14	R134a/R1234yf	500/420 ±15	ND-12/SP-A2	PAG46yf	75/110
CC (358)		11.11-12.16	Denso 6SEU14/7SEU17 comp.	R134a	550 ±15	ND-8	PAG46	90/140
CC (358)		11.11-12.16	Denso 7SEU16+7SEU17 comp. 1K0820803F	R134a	550 ±15	ND-8	PAG46	180
CC (358)		11.11-12.16	Delphi CVC/Sanden PXE/Zexel comp.	R134a	550 ±15	DH-PS/SP-10/ZXL100PG	PAG46	110/120
Crafter I 30-50 (2E/2F)		04.06-12.16	<b>+ Roof top unit</b>	R134a	740/1125 ±25	ND-8	PAG46	180/200
Crafter II (SY/SX/SZ)		09.16-	<b>+ Rear evap.</b>	R1234yf	555/800 ±15	SP-A2	PAG46yf	60/150
Eos (1F7/1F8)		03.06-08.15	<b>&gt;&gt; See Caddy III (2KA)</b>					
Fox (5Z1/5Z3)		10.03-07.08	Denso/Delphi comp.	R134a	550 ±25	ND-8/DH-PS	PAG46	80/150
Fox (5Z1/5Z3)		08.07-08.14	Denso/Delphi comp.	R134a	500 ±15	ND-8/DH-PS	PAG46	80/150
Golf III (1E7/1H1/1H5)/Vento (1H2)		08.91-04.99	Sanden comp./Delphi comp.	R134a	825 ±25	RL488/SP-10	PAG150/PAG46	135/265
Golf IV (1J1/1J5)		08.97-06.06	Sanden comp./Zexel comp.	R134a	775 ±25	SP-10/ZXL100PG	PAG46	<b>125</b> /135
Golf V+VI+Plus (1K1/1K5/5K1/517/AJ5/5M1/521)		10.03-11.13	Denso 6SEU14/7SEU17 comp.	R134a	525 ±25	ND-8	PAG46	90/140
Golf V+VI+Plus (1K1/1K5/5K1/517/AJ5/5M1/521)		10.03-11.13	Denso 7SEU16+7SEU17 comp. 1K0820803F	R134a	525 ±25	ND-8	PAG46	180
Golf V+VI+Plus (1K1/1K5/5K1/517/AJ5/5M1/521)		10.03-11.13	Delphi CVC/Sanden PXE/Zexel comp.	R134a	525 ±25	DH-PS/SP-10/ZXL100PG	PAG46	110/120



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Brand/Model	Engine	Year	Info	Refrigerant	± gr	OE Oil	ISO Oil	± 10ml
Golf VII +Alltrack (5G1/BA5/BE1)		08.12-	Denso 6SES14/Delphi CVC140/Sanden PXE14 comp.	R134a/R1234yf	500/460 ±15	ND-12/SP-A2	PAG46yf	75/110
Golf VII GTE (5G1/BE1)	GTE 1.4i Hybrid	05.14-	HVCC electric comp.	R134a/R1234yf	500/460 ±15	SP-A2	PAG46yf	120
Golf VII (5G1/BE1)	e-Golf/Electric	03.14-	HVCC electric comp./+ Heat pump	R134a	500/950 ±15	SP-A2	PAG46yf	120/250
Golf VII (5G1/BE1)	e-Golf/Electric	03.14-	HVCC electric comp./+ Heat pump	R1234yf	430/850 ±15	SP-A2	PAG46yf	120/250
Golf Sportsvan (AM1)		02.14-	Denso 6SES14/Delphi CVC140/Sanden PXE14 comp.	R134a	525 ±15	ND-12/SP-A2	PAG46yf	75/110
Jetta V+VI (1K2/162)		09.04-01.18	>> See Golf V (1K1)					
LT 28-46 II (2D_)		04.96-07.06	Denso/Sanden comp.	R134a	750 ±50	ND-8/SP-10	PAG46	135/175
Lupo (6X1/6E1)		09.98-07.05	Calsonic/Denso/Sanden comp.	R134a	550/725 ±25	DH-PS/ND-8/SP-10	PAG46	120/150
New Beetle (1C1/1Y7/9C1)		01.98-12.11		R134a	725 ±25	SP-10	PAG46	135
Passat B5 (3B2/3B5)		08.96-11.00		R134a	675 ±25	ND-8	PAG46	260
Passat B5 Facelift (3B3/3B6)		11.00-08.05		R134a	600 ±25	ND-8	PAG46	260
Passat B6 (3C2/3C5)/Passat CC (357)		03.05-01.12	Denso 6SEU14/Sanden/Delphi/Valeo comp.	R134a	600 ±25	ND-8/SP-10/DH-PS	PAG46	90/110
Passat B6 (3C2/3C5)/Passat CC (357)		03.05-01.12	Denso 7SEU16/7SEU17 comp.	R134a	600 ±25	ND-8	PAG46	140/180
Passat +Alltrack B7 (362/365)		08.10-10.11	Denso 6SEU14/Sanden/Delphi/Valeo comp.	R134a	600 ±25	ND-8/SP-10/DH-PS	PAG46	90/110
Passat +Alltrack B7 (362/365)		08.10-10.11	Denso 7SEU16/7SEU17 comp.	R134a	600 ±25	ND-8	PAG46	140/180
Passat +Alltrack B7 (362/365)		11.11-02.15	Denso 6SEU14/Sanden/Delphi/Valeo comp.	R134a	550 ±15	ND-8/SP-10/DH-PS	PAG46	90/110
Passat +Alltrack B7 (362/365)		11.11-02.15	Denso 7SEU16/7SEU17 comp.	R134a	550 ±15	ND-8	PAG46	140/180
Passat +Alltrack B8 (3G2/3G5)		08.14-	Denso 6SES14/Delphi CVC/Sanden PXE14 comp.	R134a/R1234yf	500/460 ±15	ND-12/SP-A2	PAG46yf	75/110
Passat +Alltrack B8 (3G2/3G5)	GTE 1.4i Hybrid	08.14-	HVCC electric comp.	R134a/R1234yf	500/460 ±15	SP-A2	PAG46yf	120
Phaeton (3D_)	3.0 TDI/3.6i/5.0 TDI	04.02-03.16		R134a	600 ±25	ND-8	PAG46	140/180
Phaeton (3D_)	3.2i/4.2i/6.0i Petrol	04.02-03.16		R134a	600 ±25	ND-8	PAG46	200
Polo Classic (6V2/6V5)		01.95-01.02	Sanden SD6V12 comp.	R134a	775 ±25	SP-10	PAG46	135
Polo III (6N1/6N2)		04.96-09.01	Sanden SD6V12 comp.	R134a	550 ±25	SP-10	PAG46	135
Polo IV (9N)		10.01-11.09	Sanden PXE13 comp.	R134a	550 ±25	SP-10	PAG46	120
Polo IV (9N)		10.01-11.09	Denso 6SEU12/Denso 6SEU14 comp.	R134a	550 ±25	ND-8	PAG46	80/140
Polo V (6R)		06.09-05.17	Denso 6SEU14/6SES14 comp.	R134a/R1234yf	500/450 ±15	ND-8/ND-12	PAG46/PAG46yf	90/110
Polo V (6R)		06.09-05.17	Sanden PXE14 comp./Delphi comp.	R134a/R1234yf	500/450 ±15	SP-A2/DH-PSD1	PAG46/PAG46yf	75/110
Polo VI (AW)		06.17-	Delphi CVC/Denso 6SES14/Sanden PXE14 comp.	R1234yf	450 ±15	DH-PSD1/ND-12/SP-A2	PAG46yf	75/110
Routan		09.08-12.13	+ Rear evap.	R134a	820/1150 ±20	PAG46	PAG46	120/190
Scirocco III (137/138)		05.08-11.17	Denso 6SEU14/7SEU17 comp.	R134a/R1234yf	525 ±25/460 ±15	ND-8/ND-12	PAG46/PAG46yf	90/140
Scirocco III (137/138)		05.08-11.17	Delphi CVC/Sanden PXE comp.	R134a/R1234yf	525 ±25/460 ±15	DH-PSD1/SP-A2	PAG46/PAG46yf	110
Sharan I (7M8/7M9/7M6)		05.95-05.00	+ Rear evap.	R134a	975/1375 ±25	SP-10	PAG46	135/240
Sharan I (7M8/7M9/7M6) Facelift		06.00-03.10	+ Rear evap.	R134a	725/975 ±25	SP-10	PAG46	135/240
Sharan II (7N1/7N2)		05.10-09.16	Denso comp./ + Rear evap.	R134a	600/950 ±25	ND-8	PAG46	140/240
Sharan II (7N1/7N2)		05.10-09.16	Sanden comp./ + Rear evap.	R134a	600/950 ±25	SP-10	PAG46	110/210
Sharan II (7N1/7N2)		10.16-	Denso comp./ + Rear evap.	R1234yf	500/825 ±15	ND-12	PAG46yf	140/240
Sharan II (7N1/7N2)		10.16-	Sanden comp./ + Rear evap.	R1234yf	500/825 ±15	SP-A2	PAG46yf	110/210
T-Cross (C11)		12.18-	Delphi CVC/Denso 6SES14/Sanden PXE14 comp.	R1234yf	450 ±15	DH-PSD1/ND-12/SP-A2	PAG46yf	75/110

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Brand/Model	Engine	Year	Info	Refrigerant	± gr	OE Oil	ISO Oil	± 10ml
T-Roc (A11)		07.17-	Delphi CVC/Denso 6SES14/Sanden PXE14 comp.	R1234yf	460 ±15	DH-PSD1/ND-12/SP-A2	PAG46yf	75/110
Tiguan (5N)		09.07-07.18	Denso 6SEU14/7SEU17 comp.	R134a	660 ±15	ND-12	PAG46yf	90/140
Tiguan (5N)		09.07-07.18	Delphi CVC/Sanden PXE comp.	R134a	660 ±15	DH-PSD1/SP-A2	PAG46yf	110
Tiguan+ Allspace (AD1/BW2)		01.16-	Delphi CVC/Denso 6SES14/Sanden PXE14 comp.	R1234yf	460 ±15	DH-PSD1/ND-12/SP-A2	PAG46yf	75/110
Touareg (7LA/7L6/7L7)		10.02-05.10	Denso 7SEU16C comp. + Rear evap.	R134a	725/1075 ±25	ND-8	PAG46	200/300
Touareg (7LA/7L6/7L7)		10.02-05.10	Denso 7SEU17C comp. + Rear evap.	R134a	725/1075 ±25	ND-8	PAG46	140/240
Touareg (7P5)		01.10-03.18	Denso 6SEU14C/ + Rear evap.	R134a	875/1125 ±25	ND-8	PAG46	140/240
Touareg (7P5)		01.10-03.18	Denso 7SEU16C comp. + Rear evap.	R134a	875/1125 ±25	ND-8	PAG46	160/260
Touareg (7P5)		01.10-03.18	Denso 6SEU14C/ + Rear evap.	R1234yf	800/1000 ±15	ND-12	PAG46yf	140/240
Touareg (7P5)		01.10-03.18	Denso 7SEU16C comp. + Rear evap.	R1234yf	800/1000 ±15	ND-12	PAG46yf	160/260
Touareg (7P5)	3.0 V6 Hybrid	04.10-03.18	Denso ES34 comp. + Rear evap.	R134a	875/1125 ±25	ND-11	POE	150/250
Touareg (7P5)	3.0 V6 Hybrid	04.10-03.18	Denso ES34 comp. + Rear evap.	R1234yf	800/1000 ±15	ND-11	POE	150/250
Touareg (CR7)		11.17-		R1234yf	See OE!	ND-12	PAG46yf	See OE!
Touran (1T1/1T2/1T3)		02.03-05.15	>> See Caddy III (2KA)					
Touran (5T1)		05.15-	Delphi CVC/Denso 6SES14/Sanden PXE14 comp.	R1234yf	460 ±10	DH-PSD1/ND-12/SP-A2	PAG46yf	75/110
Transporter IV/T4 (70X/7D)		07.90-04.03	+ Rear evap.	R134a	975/1375 ±25	SP-10	PAG46	135/240
Transporter IV/T4 (70X/7D)		07.90-04.03	Long wheel base/ + Rear evap.	R134a	1025/1400 ±25	SP-10	PAG46	135/240
Transporter/Multivan V/T5 (7E_/7H_/7J_)		04.03-12.09	Denso comp./ + Rear evap.	R134a	650/950 ±50	ND-8	PAG46	140/240
Transporter/Multivan V/T5 (7E_/7H_/7J_)		04.03-12.09	Sanden comp./ + Rear evap.	R134a	650/1050 ±50	SP-10	PAG46	135/235
Transporter/Multivan V/T5 (7E_/7H_/7J_)		01.10-08.15	Denso comp./ + Rear evap.	R134a	525/825 ±25	ND-8	PAG46	140/240
Transporter/Multivan V/T5 (7E_/7H_/7J_)		01.10-08.15	Sanden comp./ + Rear evap.	R134a	525/825 ±25	SP-10	PAG46	135/235
Transporter/Multivan VI/T6 (SG_)		04.15-	Denso 6SEU14/7SEU16C/ + Rear evap.	R134a	600/900 ±15	ND-8	PAG46	170/250
Transporter/Multivan VI/T6 (SG_)		04.15-	Denso 6SES14/ + Rear evap.	R134a	600/900 ±15	ND-8	PAG46	150/220
Transporter/Multivan VI/T6 (SG_)		04.15-	Sanden PXE16 comp./ + Rear evap.	R134a	600/900 ±15	SP-10	PAG46	110/150
Transporter/Multivan VI/T6 (SG_)		04.15-	Denso 6SES14/ + Rear evap.	R1234yf	530/830 ±15	ND-12	PAG46yf	110/250
Transporter/Multivan VI/T6 (SG_)		04.15-	Sanden PXE16 comp./ + Rear evap.	R1234yf	530/830 ±15	SP-A2	PAG46yf	60/170
Up (121/BL1/BL2)		08.11-		R134a/R1234yf	380 ±10/330 ±15	SP-10/SP-A2	PAG46/PAG46yf	120
Up (121/BL1/BL2)	E-Up/Electric	07.13-	Hanon comp./HVCC electric comp.	R134a/R1234yf	380 ±10/330 ±15	POE/SP-A2	POE/PAG46yf	120/150

Viscosity of PAG (PolyAlkylenGlycol) oil:

PAG46 = Low

PAG100 = Medium

PAG150 = High

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