

AutoAir Air-Conditioning Car & Van Oil & Gas Chart

2022

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
ALFA ROMEO								
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)	2.4 JTD	09/97-02/02		R134a	650 ±25	SP-20/ND-9	PAG100	130/150
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-		R134a /R1234yf	450/420 ±20	DH-PS/DH-PSD1	PAG46/PAG46yf	130
GT (937)		11/03-09/10		R134a	500 ±40	SP-10	PAG46	130
GTV/Spider (916)	V6	05/98-04/05		R134a	725 ±25	ND-9/SP-10	PAG100/PAG46	160/240
Mito (955)		09/08-		R134a	450 ±40	ND-8/SP-10	PAG46	130
Stelvio (949)		12/16-		R1234yf	535 ±20	ND-12	PAG46yf	130
ASTON MARTIN								
DB7 Vantage	3.2	1994-04		R134a	900 ±30	SP-10	PAG46	Refer OEM
AUDI								
80 (8C2/8C5/8G7/B4)	S2/RS2	09/91-08/00		R134a	675/775 ±25	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/Sanden PXE14 comp.	R134a /R1234yf	500/450 ±15	ND-12/SP-A2	PAG46yf	75/110
A1 (GBA)		07/18-	Denso 6SE14/Sanden PXE14 comp.	R1234yf	450 ±15	ND-12/SP-A2	PAG46yf	75/110
A2 (820)		02/00-08/05	2001.07 >	R134a	525/500 ±25	ND-8	PAG46	180
A3/S3 (8L1)		09/96-06/03	Sanden SD7V16/Zexel comp.	R134a	775 ±25	SP-10/ZXL100PG	PAG46	125/135
A3/RS3 (8P1/8P7/8PA)		05/03-05/13	Denso 6SEU14/7SEU17 comp.	R134a	525 ±25	ND-8	PAG46	90/140

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
A3/RS3 (8P1/8P7/8PA)		05/03-05/13	Denso 7SEU16With7SEU17 comp. 1K0820803F	R134a	525 ±25	ND-8	PAG46	180
A3/RS3 (8P1/8P7/8PA)		05/03-05/13	Delphi CVC/Sanden PXE/Zexel comp.	R134a	525 ±25	DH-PS/SP-10/ZXL100PG	PAG46	110/120
A3/S3/RS3 (8V1/8V7/8VA/8VE/8VF/8VK/8VM/8VS)		04/12-	Denso 6SES14/Delphi CVC/Sanden PXE14 comp.	R134a /R1234yf	500/460 ±15	ND-12/SP-A2	PAG46yf	75/110
A3 (8VA/8VF)	e-tron (1.4TFSi Hybrid)	05/14-	HVCC electric comp.	R134a /R1234yf	500/450 ±15	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/Showa condenser	R134a	575/725 ±25	ND-8	PAG46	250-300
A4/S4/RS4 (8E2/8E5/B6)		11/00-12/04	> 01.2004	R134a	500 ±20	ND-8	PAG46	120/180
A4/S4/RS4 (8EC/8ED/B7)	RS4	11/04-06/08		R134a	500/440 ±20	ND-8	PAG46	120/130
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)	4/6 cyl petrol 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	Refer OEM
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	Refer OEM
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	With Rear evap.	R134a	780/930 ±20	ND-8	PAG46	130
A8/S8 (4H2/4H8/4HC/4HL)	4.2 TDI	11/09-04/14	With Rear evap.	R134a	740/915 ±15	ND-8	PAG46	180
A8/S8 (4H2/4H8/4HC/4HL)	4.2 TDI	10/13-01/18	With Rear evap.	R1234yf	700/890 ±15	ND-12	PAG46yf	110/130
A8 (4N2/4N8)		06/17-		R1234yf	See OE!	ND-12	PAG46yf	Refer OEM
Allroad (4BH/C5)		05/00-08/05		R134a	675 ±25	ND-8	PAG46	250
E-Tron		09/18-		R1234yf	See OE!	ND-12	PAG46yf	Refer OEM
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	Refer OEM
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

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
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	With Rear evap.	R134a	700/1050 ±50	ND-8	PAG46	150/250
Q7 II (4MB)		01/15-	With Rear evap.	R134a	700/950 ±15	ND-8	PAG46	110/140
Q7 II (4MB)		01/15-	With 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 OEI	ND-12	PAG46yf	Refer OEM
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
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

BMW

1-Series (E81/E82/E87/E88)		02/03-03/10	Denso 5SE/Calsonic CSE/Denso 6SBUWith6SEU 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 6SBUWith6SEU 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 6SBUWith6SEU/ 6SESWithSASWith7SEU	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 6/7SBUWith6/7SEU	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 6/7SBUWith6/7SEU	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	Refer OEM

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
7-Series (E38)	750 iL	12/94-11/01	Denso 10PA17C comp./ With 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	With 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-	With 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./With 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
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	Refer OEM
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	Refer OEM
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	Refer OEM
Z3 (E36)		10/95-06/03	Denso comp. With Tube&Fin cond.	R134a	1000 ±25	ND-8	PAG46	100-140
Z3 (E36)		10/95-06/03	Denso comp. With PF cond.	R134a	825 ±25	ND-8	PAG46	100-140
Z3 (E36)		10/95-06/03	Seiko Seiki comp./ With Tube&Fin cond.	R134a	1000 ±25	SK-20	PAG100	150
Z3 (E36)		10/95-06/03	Seiko Seiki comp./ With 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	Refer OEM
Z8 (E52)		06/00-06/03		R134a	710 ±25	ND-8	PAG46	180

CADILLAC (GM)

ATS		02/13-		R1234yf	See OE!	SP-A2	PAG46yf	Refer OEM
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	With Rear evap.	R134a	740/1140 ±10	PAG46	PAG46	200/280
Escalade		09/14-	With Rear evap.	R1234yf	See OE!	SP-A2	PAG46yf	Refer OEM
SRX		09/03-12/09	With Rear evap.	R134a	600/800 ±10	PAG46	PAG46	170/200

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
STS		09/04-12/07		R134a	650 ±10	PAG46	PAG46	140
XLR		09/03-09/09		R134a	620 ±10	PAG46	PAG46	140

CHEVROLET (GM)

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
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

CHRYSLER (USA)

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-	With 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	Refer OEM
Sebring (JS)		07/07-12/11		R134a	570 ±20	ND-8	PAG46	Refer OEM
Voyager III (GS)/Voyager IV (RG/RS)		01/95-12/08	With 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

CITROEN

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
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./With Rear evap	R1234yf	450/775 ±10	SP-A2	PAG46yf	60
Berlingo III (K9)		06/18-	Cond. 23 dm³/Jianshe comp./ With 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	With Rear evap.	R134a	450/675 ±25	SP-10	PAG46	135/200
C4 Picasso II/Grand Picasso II		02/13-	With Rear evap.	R134a /R1234yf	450/625 ±10	SP-A2	PAG46yf	90/140
C4 Aircross		04/12-		R134a	500 ±20	PAG46	PAG46	80
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	Refer OEM
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)		06/12/2002	Long wheel base/ With Rear evap.	R134a	1000 ±50	SP-10	PAG46	180
Dispatch/Jumpy III (VF7)		01/07-	With Rear evap.	R134a	540/850 ±25	SP-10	PAG46	135/200
Dispatch/Jumpy III (VF7)		01/07-	Long wheel base/ With Rear evap.	R134a	950 ±25	SP-10	PAG46	200
Dispatch/Jumpy IV/Spacetourer (V)		04/16-	Cond. 19 dm³/Sanden comp./ With Rear evap.	R1234yf	450/775 ±10	SP-A2	PAG46yf	Refer OEM
Dispatch/Jumpy IV/Spacetourer (V)		04/16-	Cond. 23 dm³/Jianshe comp./ With Rear evap.	R1234yf	650/975 ±10	VC200YF	PAG100yf	Refer OEM
DS3		11/09-07/15	Denso comp./Sanden comp.	R134a /R1234yf	450/425 ±10	SP-A2/ND-12	PAG46yf	90/110
DS4/DSS		03/11-07/15	Denso 55EL12/Denso 65EL16 comp.	R134a /R1234yf	450/425 ±10	ND-8/ND-12	PAG46/PAG46yf	90/120
DS4/DSS		04/11-07/15	Sanden SD6C12/Sanden SD7C16 comp.	R134a /R1234yf	450/425 ±10	SP-10/SP-A2	PAG46/PAG46yf	110/135

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
Jumper I/Relay I (244)		04/02-06/06	With Roof top unit	R134a	1400 ±25	SP-10	PAG46	200
Jumper II/Relay II (250)		04/06-	With Rear evap.	R134a	550/950 ±25	SP-10	PAG46	150/200
Jumper II/Relay II (250)		04/06-	With 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

DACIA

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	Refer OEM
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./ With Rear evap.	R134a	475/880 ±35	SP-10	PAG46	135/200
Duster II		10/17-		R1234yf	See OE!	SP-A2	PAG46yf	Refer OEM
Logan I/MCV/Van/Pick Up (FS/KS/LS/US)		08/04-	Cond. with integrated dryer/With Sanden comp.	R134a	475/750 ±35	SP-10	PAG46	135
Logan I/MCV/Van/Pick Up (FS/KS/LS/US)		08/04-	Cond. with integrated dryer/With 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./ With 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 II/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

DAEWOO

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	Refer OEM
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	Refer OEM

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
Rezzo/Tacuma (KLAU/U100)		09/00-2008		R134a	750 (RHD 820) ±20	RL488	PAG150	220

DAIHATSU

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)	1.0i/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

DODGE (CHRYSLER)

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	With 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	Refer OEM
Durango		01/11-		R134a	See OE!	SP-20	PAG100	Refer OEM
Grand Caravan		06/07-		R134a	See OE!	SP-20	PAG100	Refer OEM
Journey	2.4/2.0CRD	06/08-	With Rear evap.	R134a	620/910 ±30	ND-8	PAG46	110/170
Ram Pickup (DJ/DS)		10/08-		R134a	See OE!	ND-8	PAG46	Refer OEM
Nitro		09/06-12/12		R134a	540 ±30	ND-8	PAG46	140

FIAT

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

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
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	With Rear evap.	R134a	550/700 ±25	SP-10	PAG46	135/200
Ducato II (244)		04/02-07/06	With Roof top unit	R134a	1400 ±25	SP-10	PAG46	200
Ducato III (250/290)		07/06-	With Rear evap.	R134a	550/950 ±25	SP-10	PAG46	150/200
Ducato III (250/290)		07/06-	With 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-	With 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/ With Rear evap.	R134a	540/850 ±25	SP-10	PAG46	135/180
Scudo II (270/272)		01/07-	Long wheel base/ With 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./With Rear evap.	R134a	590/880 ±20	ZXL100PG	PAG46	120/220
Talento (296)		06/16-	Zexel comp./With Rear evap.	R1234yf	540/850 ±20	VC100yf	PAG46yf	120/220
Tipo/Egea(356)		10/15-		R134a /R1234yf	450/420 ±20	PSD1	PAG46yf	100
Ulysse (179)		08/02-07/11		R134a	600 ±25	SP-10	PAG46	135

FISKER

Karma	Hybrid	02/12-		R1234yf	600 ±10	ND-11	POE	Refer OEM
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FORD

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

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
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 II/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./ With 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./ With 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./ With 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./ With Rear evap.	R134a	725/1075 ±25	SP-10	PAG46	135/240
Galaxy II (WM/WA6)/S-Max (WS/WA6)		05/06-06/15	With Rear evap.	R134a	600/850 ±15	SP-10	PAG46	200/250
Galaxy III (CK)/S-Max (CJ)		01/15-	With Rear evap.	R134a	565/965 ±15	SP-10	PAG46	150/240
Galaxy III (CK)/S-Max (CJ)		01/15-	With Rear evap.	R1234yf	510/910 ±15	SP-A2	PAG46yf	150/240
Ka I (RB)		09/96-11/08		R134a	650 ±15	PAG46	PAG46	200
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)	1.5 TDCi	03/13-		R134a /R1234yf	570/680 ±15	SP-A2	PAG46yf	130/140
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)	2.5 Duratec (V15)	03/07-01/15	With Automatic transmission (AWF21)	R134a	520/590 ±10	PAG46	PAG46	200

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
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 / 10.2013 >	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-	With Rear evap.	R134a	740/1150 ±15	PAG46	PAG46	160/240
Transit Bus+Box+Custom/Tourneo Custom		04/12-	With Rear evap.	R1234yf	740/1050 ±15	ND-12	PAG46yf	160/240
Transit/Tourneo Connect+Courier	1.0i Ecoboost/1.5&1.6TDCi	09/13-	With Rear evap.	R134a /R1234yf	575/800 ±15	ND-12	PAG46yf	120/200
Transit/Tourneo Connect+Courier	1.6i Ecoboost	09/13-	With Rear evap.	R134a /R1234yf	675/875 ±15	ND-12	PAG46yf	130/220
Transit/Tourneo Courier	1.6 TDCi	02/14-		R134a /R1234yf	620 ±15/675 ±10	ND-12	PAG46yf	120
Transit Bus+Box (E)		06/94-07/00	With Rear evap.	R134a	900/1200 ±25	PAG46	PAG46	200/250
Transit Bus(FD/FB/FC/FS/FM/FN/FS/FZ)		01/00-05/06	With Rear evap.	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	With Rear evap.	R134a	750/1400 ±20	PAG46	PAG46	280/640

HONDA

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)	1.3i Hybrid	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	Refer OEM
CR-Z (ZF)	1.5i Hybrid	06/10-		R134a	475 ±25	SP-10	PAG46	90
FR-V (BE)		08/04-10/09	Denso comp./SandenWithKeihin 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
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

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
S2000 (AP)		03/99-06/09	> 09.2003 / 10.2003 >	R134a	625575 ±25	SP-10	PAG46	130/140
Stream (RN)		05/01/2007	With Rear evap.	R134a	525/725 ±25	ND-8	PAG46	140/170

HYUNDAI

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	Refer OEM
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-	With Rear evap.	R134a	600/800 ±25	FD46XG	PAG46yf	120/210
Grand Santa Fé		06/13-	With Rear evap.	R1234yf	550/750 ±25	FD46XG	PAG46yf	120/210
Grandeur (TG)		04/05-12/11		R134a	500 ±25	FD46XG	PAG46	150
H-1/H200/Starex (A1)		10/97-12/07	With Rear evap.	R134a	650/1200 ±25	PAG46	PAG46	180/210
H-1/H300/Starex/Satellite/Montana/i800/iLoad/iMax		02/08-	With Rear evap.	R134a	650/850 ±25	PAG46	PAG46	150/210
H350		04/15-	With Rear evap.	R134a	700/1150 ±25	FD46XG	PAG46	140/280
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./With Heat pump	R134a	550/1000 ±25	RB100EV	POE	130/180
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	With Rear evap.	R134a	700/900 ±25	FD46XG	PAG46	150/210
Kona/Kauai (OS)		06/17-		R134a /R1234yf	500/450 ±25	FD46XG/SP-A2	PAG46/PAG46yf	120
Matrix (FC)		06/01-08/10		R134a	575 ±25	FD46XG	PAG46	150
Nexo	Fuel Cell Hydrogen	03/18-		R1234yf	See OE!	RB100EV	POE	Refer OEM
Santa Fe I (SM)/Santa Fe II (CM)		11/00-12/12	With Rear evap.	R134a	600/850 ±25	FD46XG	PAG46	150/210
Santa Fe III (DM)		09/12/2018	With Rear evap.	R134a	600/800 ±25	FD46XG	PAG46	120/210
Santa Fe III (DM)		09/12/2018	With Rear evap.	R1234yf	550/750 ±25	SP-A2	PAG46yf	120/210

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
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	With 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

INFINITI

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	Refer OEM
Q50		04/13-		R1234yf	See OE!	PAG46yf	PAG46yf	Refer OEM
Q60		10/13-		R1234yf	See OE!	PAG46yf	PAG46yf	Refer OEM
Q70 (Y51)		03/13-		R1234yf	See OE!	PAG46yf	PAG46yf	Refer OEM
QX30		04/16-		R1234yf	630 ±10	ND-12	PAG46yf	120

ISUZU

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!	Refer OEM
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

JAGUAR / DAIMLER

E-Pace (X540)		09/17-		R1234yf	See OE!	ND-12	PAG46yf	Refer OEM
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	Refer OEM
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

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
XJ (X350)		05/03-03/09	With 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

JEEP (CHRYSLER)

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	With 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

KIA

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 II/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	With 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 (ID)		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

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
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
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	With Rear evap.	R134a	600/750 ±25	FD46XG	PAG46	120/180
Sorento III (UM)		01/15-	With 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./With 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	Refer OEM
Stonic (YB)		07/17-		R1234yf	450 ±25	SP-A2	PAG46yf	120
Venga (YN)		02/10-		R134a	550 ±25	PAG46	PAG46	100

LANCIA

Delta III (844)		08/08-08/14		R134a	450 ±40	ND-8	PAG46	130
Flavia Convertible (IS)		03/12-12/14		R134a	See OE!	PAG46	PAG46	Refer OEM
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

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
Thesis (841)		07/02-07/09		R134a	650 ±25	PAG46	PAG46	140
Yoyager MPV (404)		09/11-12/14	With 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

LAND ROVER

Defender (L316)	V8	11/98-02/16		R134a	900 ±30	ND-8	PAG46	180
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 / With Rear evap.	R134a	700/900 ±25	ND-8	PAG46	180/210
Discovery II (L318)		11/98-06/04	01.2003 > / With Rear evap.	R134a	700/780 ±25	ND-8	PAG46	180/210
Discovery III (L319)	2.7 TDV6/4.0i V6	07/04-09/09	With Rear evap.	R134a	550/810 ±25	SP-10	PAG46	130/180
Discovery III (L319)	4.4i V8/	07/04-09/09	With Rear evap.	R134a	600/900 ±50	SP-10	PAG46	130/180
Discovery IV (L319)	2.7 TDV6	09/09-	With Rear evap.	R134a	550/810 ±25	ND-8	PAG46	130/170
Discovery IV (L319)	3.0i V6/5.0i V8	08/13-	With Rear evap.	R134a	650/900 ±25	ND-8	PAG46	80/130
Discovery IV (L319)	3.0TDV6	09/09-	With Rear evap.	R134a	600/900 ±25	SP-10	PAG46	80/130
Discovery IV (L319)	4.0i V8	09/09-	With Rear evap.	R134a	600/900 ±25	ND-8	PAG46	130/170
Discovery V (L462)		09/16-	With 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	With Rear evap.	R134a	700/880 ±10	PAG46	PAG46	130/170
Range Rover III (L322) + Sport (L320)	5.0i V8	04/09-03/13	With 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-	With 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-	With Rear evap.	R1234yf	800/1150 ±10	SP-A2	PAG46yf	80/130
Range Rover Sport (L494)	2.0 PHEV Hybrid	10/17-	With Rear evap.	R1234yf	950/1100 ±10	SP-A2	PAG46yf	80/130
Range Rover Velar (L560)		03/17-		R1234yf	See OE!	SP-A2	PAG46yf	Refer OEM

LEXUS

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

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
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-	With Rear evap.	R134a	See OE!	ND-8	PAG46	Refer OEM
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
LS (F3)	430	08/00-08/06	With Rear evap.	R134a	650/900 ±50	ND-8	PAG46	130/150
LS (F4)	460	04/06-11/16	With 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	Refer OEM
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

MAZDA

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	Refer OEM
5 (CR19)		02/05-05/10		R134a	500 ±25	ATMOS GU10	PAG46	150

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
6 (GG/GY)	2.0/2.0 D	01/02-02/08		R134a	470 ±25	ATMOS GU10	PAG46	120/150
6 (GH)		08/07-07/13		R134a	525 ±25	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 (IASM/IBSM)		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
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)		04/09/1995		R134a	550 ±25	ND-8	PAG46	150
MPV II (LW)	2.0i/2.5i V6	08/99-07/02	With 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	With 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

MERCEDES

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

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
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
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	With Rear evap.	R134a	1050/1180 ±50	ND-8	PAG46	120
G-Class (W463)		01/18-		R1234yf	See OE!	ND-12	PAG46yf	Refer OEM
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	With Rear evap.	R134a	970/1220 ±30	ND-8	PAG46	110
M-Class/GLE (W166)/GL/GLS-Class (X166)		06/11-12/15	With Rear evap.	R134a	1050/1300 ±30	SP-A2	PAG46yf	120
GLE (W166/C292)/GL/GLS-Class (X166)		04/15-	With Rear evap.	R1234yf	1000/1300 ±30	SP-A2	PAG46yf	120
GLE (W167)		10/18-		R1234yf	See OE!	ND-12	PAG46yf	Refer OEM
R-Class (W251/V251)		01/06-10/12	With Rear evap.	R134a	970/1220 ±30	ND-8	PAG46	110
S-Class (W140)		02/91-10/98	> VIN 1A128373/With Rear evap.	R134a	1200/1400 ±30	ND-8	PAG46	170
S-Class (W140)		02/91-10/98	VIN 1A128374 >/With Rear evap.	R134a	1150/1250 ±30	ND-8	PAG46	170
S-Class (W220)		10/98-08/05	With Rear evap.	R134a	950/1050 ±30	ND-8	PAG46	120
S-Class (W221)		10/05-12/13	With Rear evap.	R134a	1070/1180 ±30	ND-8	PAG46	110
S-Class (W222/V222/X222)		05/13-	With Rear evap.	R134a	660/770 ±10	ND-8	PAG46	110
S-Class (W222/V222/X222)		05/13-	With Rear evap.	R1234yf	640/730 ±10	SP-A2	PAG46yf	110
S-Class (W222/V222/X222)		05/13-	With Rear evap.	R744	420/450 ±10	PAG VG68	PAG VG68	100
S-Class (W222/V222/X222)	300+400 Hybrid 20kW	05/13-	With Rear evap.	R134a	770/870 ±10	SE-10y	POE	120

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
S-Class (W222/V222/X222)	500 Hybrid 85kW	07/14-	With Rear evap.	R134a	710/820 ±10	SE-10y	POE	120
S-Class (W222/V222/X222)	500 Hybrid 85kW	07/14-	With 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	With Rear evap.	R134a	860/1300 ±30	ND-8	PAG46	120/180
Sprinter (906)		06/06-01/18	With Rear evap.	R134a	800/1190 ±30	ND-8	PAG46	130/190
Sprinter (907/910)		02/18-	With Rear evap.	R134a	600/See OEI ±10	ND-12	PAG46yf	Refer OEM
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./ With Rear evap.	R134a	1100 ±20	ND-8	PAG46	175
Vito/Viano (W639)		09/03-	With Rear evap.	R134a	550/840 ±20	ND-8	PAG46	150/190
V-Class/Vito (W447)		10/14-	With Rear evap.	R134a /R1234yf	600/900 ±30	ND-12	PAG46yf	120/180

MG > See ROVER / MG

MINI

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

MITSUBISHI

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
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	With Rear evap.	R134a	780/1180 ±20	FD46XG	PAG46	180/220
Grandis (NA)		04/04-06/11	With 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	With Rear evap.	R134a	725/1225 ±25	ND-8	PAG46	100/180
L 400/Delica/Space Gear (PA/PB/PC/PD)		01/94-01/07	With 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	With Rear evap.	R134a	550/750 ±20	ND-8	PAG46	120/140
Pajero IV/Shogun IV (V80/V90)		11/06-	With 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

NISSAN

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

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
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./ With Rear evap.	R134a	850/1400 ±25	RL488	PAG150	220/260
Interstar (X70)		11/03-06/10	Delphi comp./ With Rear evap.	R134a	750/1200 ±25	RL488	PAG150	220/260
Interstar (X70)		04/02-10/03	Sanden comp./ With Rear evap.	R134a	850/1400 ±25	SP-10	PAG46	135/180
Interstar (X70)		11/03-06/10	Sanden comp./ With 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	Refer OEM
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	Refer OEM
Navara (D40)		10/04-12/15	Manual AC	R134a	1080 ±50	DH-PS	PAG46	180
Navara (D40)		10/04-12/15	ECC/ With 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-	With Rear evap.	R134a	450/650 ±25	DH-PR	PAG100	120/220
NV200/Evalia	Diesel	07/10-	Sanden SD6V12 comp./With Rear evap.	R134a	450/650 ±25	PAG46	PAG46	135/235
NV200/Evalia	Diesel	07/10-	Calsonic CR12S With Rear evap.	R134a	450/650 ±25	DH-PR	PAG100	150/250
NV300 (X82)		09/16-	With Rear evap.	R134a	590/880 ±20	ZXL100PG	PAG46	120/220
NV300 (X82)		09/16-	With Rear evap.	R1234yf	540/850 ±20	VC100yf	PAG46yf	120/220
NV400 (X62)		08/10-	With Rear evap.	R134a	580/1100 ±35	ZXL100PG	PAG46	120/180
NV400 (X62)		08/10-	With Roof top unit	R134a	580/1700 ±35	ZXL100PG	PAG46	120/180
Pathfinder III (R51)		01/05-08/14	With Rear evap.	R134a	750/850 ±50	DH-PS	PAG46	180/210
Pathfinder IV (R52)		09/12-	With Rear evap.	R1234yf	See OE!	DH-PSD1	PAG46yf	Refer OEM
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./ With Rear evap.	R134a	750/1150 ±35	RL488	PAG150	220/260
Primastar (X83)	2.0 DCi	09/06-08/16	Zexel comp./With Rear evap.	R134a	650/950 ±35	DH-PS	PAG46	220/260

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
Pulsar (C13)		10/14-	> VIN 1296764/VIN 1296765 >	R1234yf	450 ±25	YR20	PAG100yf	150
Qashqai I (J10/NJ10/JJ10)		02/07-12/13	> 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

PEUGEOT

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 SSEL12C/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	Refer OEM
301		11/12-		R134a /R1234yf	450 ±20/420 ±10	VC200YF	PAG100yf	110
306 (7A/7B/7C/7E/N3/N5)		02/04/1997		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 SSEL12/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.	R134a	450/575 ±25	ND-8/SP-10	PAG46	80/110
308 II +SW II (LB/LC)		09/13-	Cond. 12mm (19 dm ³)/Cond. 16mm (23 dm ³)	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 dm ³)/Denso/Sanden comp.	R1234yf	525 ±10	ND-12/SP-A2	PAG46yf	80/110
406 (8B/8E/F)/406 Coupé (8C)		05/01/1999	> VIN 80800000/VIN 80800001 > With Delphi comp.	R134a	750/625 ±25	RL488	PAG150	265
406 (8B/8E/F)/406 Coupé (8C)		05/01/1999	> VIN 80800000/VIN 80800001 > With 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 SSEL12/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

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
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.	R134a	450 ±25	ND-8/SP-10	PAG46	110/135
3008 (OU)		06/09-12/17	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/0E)		09/09-03/17	Denso comp./Sanden comp.	R134a	450 ±20	ND-8/SP-10	PAG46	110/135
5008 I (OU/0E)		09/09-03/17	Cond. 12mm /Cond. 16mm	R134a	450 ±20	ND-8/SP-10	PAG46	110/135
5008 I (OU/0E)		09/09-03/17	Denso comp./Sanden comp.	R1234yf	475/500 ±10	ND-12/SP-A2	PAG46yf	110/135
5008 II		12/16-	Cond. 12mm /Cond. 16mm	R1234yf	450/525 ±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	With Rear evap.	R134a	550/700 ±25	SP-10	PAG46	135/200
Boxer I (244)		04/02-06/06	With Roof top unit	R134a	1400 ±25	SP-10	PAG46	200
Boxer II (250)		04/06-	With Rear evap.	R134a	550/950 ±25	SP-10	PAG46	150/200
Boxer II (250)		04/06-	With 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-	With Rear evap.	R134a	540/950 ±25	SP-10	PAG46	135/200
Expert II /Expert Tepee (229/VF3A/VF3U/VF3X)	Petrol	01/07-	Long wheel base/ With Rear evap.	R134a	1075 ±25	SP-10	PAG46	200
Expert II /Expert Tepee (229/VF3A/VF3U/VF3X)	Diesel	01/07-	With Rear evap.	R134a	540/850 ±25	SP-10	PAG46	135/175
Expert II /Expert Tepee (229/VF3A/VF3U/VF3X)	Diesel	01/07-	Long wheel base/ With 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 /R1234yf	450 ±20/425 ±10	SP-10/SP-A2	PAG46/PAG46yf	135
Partner Box (K9)/Rifter		09/18-	Cond. 19 dm ³ /Comp. Sanden/ With Rear evap.	R1234yf	450/775 ±10	SP-A2	PAG46yf	Refer OEM
Partner Box (K9)/Rifter		09/18-	Cond. 23 dm ³ /Comp. Jianshe/ With Rear evap.	R1234yf	650/950 ±10	VC200YF	PAG100yf	Refer OEM
RCZ		03/10-12/15	Denso comp./Sanden comp.	R134a	425 ±20	ND-8/SP-10	PAG46	110/135
Traveller (V)		04/16-	Cond. 19 dm ³ /Comp. Sanden/ With Rear evap.	R1234yf	450/775 ±10	SP-A2	PAG46yf	Refer OEM
Traveller (V)		04/16-	Cond. 23 dm ³ /Comp. Jianshe/ With Rear evap.	R1234yf	650/975 ±10	VC200YF	PAG100yf	Refer OEM

PORSCHE

718 (982)		04/16-		R1234yf	See OE!	ND-12	PAG46yf	Refer OEM
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Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
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 /R1234yf	See OE!	SP-A2	PAG46yf	100
911 (992)		01/19-		R134a /R1234yf	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	With Rear evap.	R134a	700/1150 ±25	ND-8	PAG46	180/250
Cayenne II (92A)		06/10-04/17	With Rear evap.	R134a	850/1100 ±20	ND-8	PAG46	150/220
Cayenne III (9YA)		05/17-	With Rear evap.	R1234yf	See OE!	ND-12	PAG46yf	Refer OEM
Macan (95B)		02/14-		R134a /R1234yf	550/520 ±15	ND-8/ND-12	PAG46/PAG46yf	110
Panamera I (970)	Hybrid	09/09-10/16		R134a	580/850 ±15	ND-8/ND-11	PAG46/POE	140/160
Panamera II (971)	Hybrid	05/16-		R1234yf	See OE!	ND-12	PAG46yf	Refer OEM

RENAULT

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/CRO/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 (JEO)	1.9 dTi/2.2 TD	11/96-10/02		R134a	720 ±35	SP-10	PAG46	135
Espace III (JEO)	2.0i/3.0i V6/2.2 dCi	11/96-10/02		R134a	820 ±30	SP-10	PAG46	135
Espace III (JEO)	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./DensoWithCalsonic comp.	R134a	1000 ±35	DH-PS	PAG46	200/220
Espace V (JR)		02/15-	With 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	Refer OEM
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./ With Rear evap.	R134a	850/1400 ±25	RL488	PAG150	220/260

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
Master II (ED/FD/HD/ID/UD)		03/98-10/03	Sanden comp./ With Rear evap.	R134a	850/1400 ±25	SP-10	PAG46	135/180
Master II (ED/FD/HD/ID/UD)		11/03-12/09	Sanden comp./ With Rear evap.	R134a	750/1200 ±25	SP-10	PAG46	135/180
Master III (EV/HV/FV/JV/UV)		02/10-	With Rear evap.	R134a	580/1100 ±35	ZXL100PG	PAG46	120/180
Master III (EV/HV/FV/JV/UV)		02/10-	With 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./ With Rear evap.	R134a	750/1150 ±35	RL488	PAG150	220/260
Trafic II (EL/FL/JL)	2.0 DCI	08/06-08/14	Zexel comp./With Rear evap.	R134a	650/950 ±35	ZXL100PG	PAG46	220/260
Renault Trafic III (EG/FG/JG)		05/14-	Zexel comp./With Rear evap.	R134a	590/880 ±20	ZXL100PG	PAG46	120/220
Renault Trafic III (EG/FG/JG)		05/14-	Zexel comp./With 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

ROVER / MG

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
SAAB								
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	Refer OEM
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

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
SEAT								
Alhambra I (7V8/7V9)		04/96-05/00	With Rear evap.	R134a	975/1375 ±25	SP-10	PAG46	135/240
Alhambra I (7V8/7V9) Facelift		06/00-03/10	With Rear evap.	R134a	725/1075 ±25	SP-10	PAG46	135/240
Alhambra II (710/711)		06/10-12/16	Denso comp./ With Rear evap.	R134a	600/950 ±25	ND-8	PAG46	140/240
Alhambra II (710/711)		06/10-12/16	Sanden comp./ With Rear evap.	R134a	600/950 ±25	SP-10	PAG46	110/210
Alhambra II (710/711)		12/17-	Denso comp./ With Rear evap.	R1234yf	500/825 ±15	ND-12	PAG46yf	140/240
Alhambra II (710/711)		12/17-	Sanden comp./ With 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	Refer OEM
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 6SEU14/6SE514 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 6SE514/Sanden PXE14 comp.	R1234yf	450 ±15	DH-PSD1/ND-12/SP-A2	PAG46yf	75/110
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 6SE514/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

SKODA

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 6SEU14/6SE514 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 6SE514/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 6SE514/Sanden PXE14 comp.	R1234yf	450 ±15	DH-PSD1/ND-12/SP-A2	PAG46yf	75/110
Karoq (NU7)		07/17-	Delphi CVC/Denso 6SE514/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

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
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 7SEU16With7SEU17 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-	With Modine cond./Denso/Delphi comp.	R134a	470 ±20/500 ±15	ND-8/RL-897	PAG46	110
Octavia III (5E3/5E5)		11/12-	With 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-	With Modine cond./Denso/Delphi comp.	R134a	470 ±20/500 ±15	ND-8/RL-897	PAG46	110
Rapid (NH1/NH3)		07/12-	With 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

SMART (MCC)

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

SSANGYONG

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	Refer OEM
Korando (C300)		02/19-		R1234yf	See OE!	PAG46yf	PAG46yf	Refer OEM
Kyron		05/05-		R134a	650 ±30	ZXL200PG	PAG100	200
Musso (QK)		01/18-		R1234yf	550 ±30	PAG46yf	PAG46yf	Refer OEM
Rexton I & II (GAB)		04/02-06/12	With Rear evap.	R134a	850/1200 ±50	ZXL200PG	PAG100	200/265
Rexton W		07/12-06/17	ECC/ With Rear evap.	R134a	750/1200 ±50	ZXL200PG	PAG100	200/265
Rexton W		07/12-06/17	With Rear evap.	R134a	850/1200 ±50	ZXL200PG	PAG100	220/265
Rexton (Y400)		07/17-		R1234yf	See OE!	PAG46yf	PAG46yf	Refer OEM
Rexton Sports XL		01/19-		R1234yf	See OE!	PAG46yf	PAG46yf	Refer OEM

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
Rodius II/Stavic		06/13-		R134a	1050 ±30	ZXL200PG	PAG100	200
Tivoli/XLV		03/15-		R1234yf	500 ±30	PAG46yf	PAG46yf	120

SUBARU

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	Refer OEM
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	Refer OEM
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	With 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	Refer OEM

SUZUKI

Alto IV (FF)		09/04-12/08		R134a	400 ±50	ND-8	PAG46	105
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	Refer OEM
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

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
Ignis III (MF)		10/16-		R1234yf	See OE!	PAG46yf	PAG46yf	Refer OEM
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	Refer OEM
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	Refer OEM
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

TESLA

Model 3 (5YJ3)	Electric	01/17-		R1234yf	See OE!	ND-11	POE	Refer OEM
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	Refer OEM
Roadster	Electric	03/08-		R134a	See OE!	ND-11	POE	Refer OEM

TOYOTA

4 Runner (N18)		11/95-11/02	RHD	R134a	700/750 ±50	ND-8	PAG46	Refer OEM
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	With 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	Refer OEM
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	Refer OEM
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

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
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	Refer OEM
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 VI (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	Refer OEM
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	With Rear evap.	R134a	950 ±50	ND-8	PAG46	220
Land Cruiser 100/Land Cruiser Amazon (J1)		01/98-07/08	With coolbox/ With Rear evap.	R134a	1050 ±50	ND-8	PAG46	220
Land Cruiser 200 (J2)		08/07-	16mm PF cond./ With Rear evap.	R134a	780/920 ±30	ND-8	PAG46	120/180
Land Cruiser 200 (J2)		08/07-	16mm PF cond. With Coolbox With Rear evap.	R134a	970 ±30	ND-8	PAG46	180
Land Cruiser 200 (J2)		08/07-	22mm cond./ With Rear evap.	R134a	870/960 ±30	ND-8	PAG46	120/180
Land Cruiser 200 (J2)		08/07-	22mm cond./ With Coolbox With 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	With Rear evap.	R134a	800 ±30	ND-8	PAG46	180
Land Cruiser Prado (J12)		09/02-12/10	With coolbox/ With 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-	With Rear evap.	R134a	770 ±30	ND-8	PAG46	180
Land Cruiser Prado (J15)		07/09-	With coolbox/ With Rear evap.	R134a	800 ±30	ND-8	PAG46	180
Mirai (JPD1)	Fuel-Cell/Electric	10/14-		R1234yf	See OE!	See OE!	See OE!	Refer OEM
MR2 III (W3)		10/99-06/07		R134a	500 ±30	ND-8	PAG46	120
Previa II/Estima (R3)		02/00-02/06	With Rear evap.	R134a	700/880 ±30	ND-8	PAG46	120/195
Previa III/Estima (R5)		10/05-	With 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 dm³/Sanden comp./ With Rear evap.	R1234yf	450/775 ±10	SP-A2	PAG46yf	60/Refer OEM
ProAce +Verso (MD/MP)		02/16-	Cond. 23 dm³/Jianshe comp./ With Rear evap.	R1234yf	650/975 ±10	VC200YF	PAG100yf	135/Refer OEM
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
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	Refer OEM

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
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

VAUXHALL

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)		02/08/1994		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
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 dm ³ /Sanden comp./ With Rear evap.	R1234yf	450/775 ±10	SP-A2	PAG46yf	60
Combo (X19)		06/18-	Cond. 23 dm ³ /Jianshe comp./ With 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	Refer OEM
Crossland X (P17)		03/17-	With 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-	With 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

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
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./ With Rear evap.	R134a	850/1400 ±25	RL488	PAG150	220/260
Movano A (X70)		11/03-12/09	Delphi comp./ With Rear evap.	R134a	750/1200 ±25	RL488	PAG150	220/260
Movano A (X70)		07/98-10/03	Sanden comp./ With Rear evap.	R134a	850/1400 ±25	SP-10	PAG46	135/180
Movano A (X70)		11/03-12/09	Sanden comp./ With Rear evap.	R134a	750/1200 ±25	SP-10	PAG46	135/180
Movano B (X62)		02/10-	With Rear evap.	R134a	580/1100 ±35	ZXL100PG	PAG46	120/180
Movano B (X62)		02/10-	With 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./ With Rear evap.	R134a	750/1150 ±35	RL488	PAG150	220/260
Vivaro A (X83)	2.0 CDTi	08/06-07/14	Zexel comp./ With Rear evap.	R134a	650/950 ±35	DH-PS	PAG46	220/260
Vivaro B (X82)		06/14-03/19	Zexel comp./ With Rear evap.	R134a	590/880 ±20	ZXL100PG	PAG46	120/220
Vivaro B (X82)		06/14-03/19	Zexel comp./ With Rear evap.	R1234yf	540/850 ±20	VC100yf	PAG46yf	120/220
Zafira (T98)		04/99-12/01	With Rear evap.	R134a	700/950 ±25	DH-PS/ND-8	PAG46	120/240
Zafira (T98)		01/02-06/05	With 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
Zafira Life		03/19-	Cond. 19 dm ² /Sanden comp./ With Rear evap.	R1234yf	450/775 ±10	SP-A2	PAG46yf	Refer OEM
Zafira Life		03/19-	Cond. 23 dm ² /Jianshe comp./ With Rear evap.	R1234yf	650/975 ±10	VC200YF	PAG100yf	Refer OEM

VOLVO

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

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
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
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)	Plug-in Hybrid/Twin Engine	10/17-		R134a /R1234yf	540/480 ±20	SP-A2/VC100yf	PAG46yf	100/130
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	150/180
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	With Rear evap.	R134a	1000/1300 ±25	ZXL100PG	PAG46	180/200
XC90 I (275)		01/05-12/14	With Rear evap.	R134a	700/1000 ±25	ZXL100PG	PAG46	180/200
XC90 II (256)		09/14-	With Rear evap.	R134a	750/1000 ±20	SP-A2	PAG46yf	60/80
XC90 II (256)		09/14-	With Rear evap.	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



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	>> See Golf V (1K/5K)					
Bora (1J2/1J6)		10/98-05/05	Sanden comp./Zexel comp.	R134a	775 ±25	SP-10/ZXL100PG	PAG46	125/135

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
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 7SEU16With7SEU17 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 6SE14/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 7SEU16With7SEU17 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	With Roof top unit	R134a	740/1125 ±25	ND-8	PAG46	180/200
Crafter II (SY/SX/SZ)		09/16-	With Rear evap.	R1234yf	555/800 ±15	SP-A2	PAG46yf	60/150
Eos (1F7/1F8)		03/06-08/15	>> See Caddy III (2KA)					
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	125/135
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 7SEU16With7SEU17 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
Golf VII +Alltrack (5G1/BA5/BE1)		08/12-	Denso 6SE14/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./With Heat pump	R134a	500/950 ±15	SP-A2	PAG46yf	120/250
Golf VII (5G1/BE1)	e-Golf/Electric	03/14-	HVCC electric comp./With Heat pump	R1234yf	430/850 ±15	SP-A2	PAG46yf	120/250
Golf Sportsvan (AM1)		02/14-	Denso 6SE14/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 Facelfit (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 6SE14/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

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
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 6SEU14/6SE514 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 6SE514/Sanden PXE14 comp.	R1234yf	450 ±15	DH-PSD1/ND-12/SP-A2	PAG46yf	75/110
Routan		09/08-12/13	With 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	With Rear evap.	R134a	975/1375 ±25	SP-10	PAG46	135/240
Sharan I (7M8/7M9/7M6) Facelift		06/00-03/10	With Rear evap.	R134a	725/975 ±25	SP-10	PAG46	135/240
Sharan II (7N1/7N2)		05/10-09/16	Denso comp./ With Rear evap.	R134a	600/950 ±25	ND-8	PAG46	140/240
Sharan II (7N1/7N2)		05/10-09/16	Sanden comp./ With Rear evap.	R134a	600/950 ±25	SP-10	PAG46	110/210
Sharan II (7N1/7N2)		10/16-	Denso comp./ With Rear evap.	R1234yf	500/825 ±15	ND-12	PAG46yf	140/240
Sharan II (7N1/7N2)		10/16-	Sanden comp./ With Rear evap.	R1234yf	500/825 ±15	SP-A2	PAG46yf	110/210
T-Cross (C11)		12/18-	Delphi CVC/Denso 6SE514/Sanden PXE14 comp.	R1234yf	450 ±15	DH-PSD1/ND-12/SP-A2	PAG46yf	75/110
T-Roc (A11)		07/17-	Delphi CVC/Denso 6SE514/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 6SE514/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. With Rear evap.	R134a	725/1075 ±25	ND-8	PAG46	200/300
Touareg (7LA/7L6/7L7)		10/02-05/10	Denso 7SEU17C comp. With Rear evap.	R134a	725/1075 ±25	ND-8	PAG46	140/240
Touareg (7P5)		01/10-03/18	Denso 6SEU14C/ With Rear evap.	R134a	875/1125 ±25	ND-8	PAG46	140/240
Touareg (7P5)		01/10-03/18	Denso 7SEU16C comp. With Rear evap.	R134a	875/1125 ±25	ND-8	PAG46	160/260
Touareg (7P5)		01/10-03/18	Denso 6SEU14C/ With Rear evap.	R1234yf	800/1000 ±15	ND-12	PAG46yf	140/240
Touareg (7P5)		01/10-03/18	Denso 7SEU16C comp. With Rear evap.	R1234yf	800/1000 ±15	ND-12	PAG46yf	160/260
Touareg (7P5)	3.0 V6 Hybrid	04/10-03/18	Denso ES34 comp. With Rear evap.	R134a	875/1125 ±25	ND-11	POE	150/250
Touareg (7P5)	3.0 V6 Hybrid	04/10-03/18	Denso ES34 comp. With Rear evap.	R1234yf	800/1000 ±15	ND-11	POE	150/250
Touareg (CR7)		11/17-		R1234yf	See OE!	ND-12	PAG46yf	Refer OEM
Touran (1T1/1T2/1T3)		02/03-05/15	>> See Caddy III (2KA)					
Touran (5T1)		05/15-	Delphi CVC/Denso 6SE514/Sanden PXE14 comp.	R1234yf	460 ±10	DH-PSD1/ND-12/SP-A2	PAG46yf	75/110
Transporter IV/T4 (70X/7D)		07/90-04/03	With Rear evap.	R134a	975/1375 ±25	SP-10	PAG46	135/240
Transporter IV/T4 (70X/7D)		07/90-04/03	Long wheel base/ With Rear evap.	R134a	1025/1400 ±25	SP-10	PAG46	135/240
Transporter/Multivan V/T5 (7E_/7H_/7J_)		04/03-12/09	Denso comp./ With Rear evap.	R134a	650/950 ±50	ND-8	PAG46	140/240
Transporter/Multivan V/T5 (7E_/7H_/7J_)		04/03-12/09	Sanden comp./ With Rear evap.	R134a	650/1050 ±50	SP-10	PAG46	135/235
Transporter/Multivan V/T5 (7E_/7H_/7J_)		01/10-08/15	Denso comp./ With Rear evap.	R134a	525/825 ±25	ND-8	PAG46	140/240

Make/Model	Engine	Year	Information	Gas	± grams	OE Oil	Oil	ml
Transporter/Multivan V1/T6 (SG_)		04/15-	Denso 6SEU14/7SEU16C/ With Rear evap.	R134a	600/900 ±15	ND-8	PAG46	170/250
Transporter/Multivan V1/T6 (SG_)		04/15-	Denso 6SE14/ With Rear evap.	R134a	600/900 ±15	ND-8	PAG46	150/220
Transporter/Multivan V1/T6 (SG_)		04/15-	Sanden PXE16 comp./ With Rear evap.	R134a	600/900 ±15	SP-10	PAG46	110/150
Transporter/Multivan V1/T6 (SG_)		04/15-	Denso 6SE14/ With Rear evap.	R1234yf	530/830 ±15	ND-12	PAG46yf	110/250
Transporter/Multivan V1/T6 (SG_)		04/15-	Sanden PXE16 comp./ With 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

Disclaimer: Despite the fact that this Airconditioning filling chart was compiled with the highest accuracy, we will not accept any liability for possible wrong or incomplete information. This chart is for guidance only. For exact details please refer to oem.
