



WÜRTH

AIRCOND DATABASE

Version 1

**#READY
FOR WORK**



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AUDI

MODEL	YEAR	A/C (kg)	OIL (ml)
A1 (8X1/8XA/8XF/8XK)DENSO	2010	0.500 +/-0.015	110
A1 (8X1/8XA/8XF/8XK)SANDEN	2010	0.500 +/-0.015	75
A2 (8Z0)	2000/2005	0.510 +/-0.025	150
A3/S3 (8L1)SANDEN	1996/2003	0.775 +/-0.025	130
A3/RS3 (8P 1/8PA)DENSO	2003/2013	0.525 +/-0.025	110
A3/RS3 (8P 1/8PA)SANDEN	2003/2013	0.525 +/-0.025	110
A3/RS3 (8P 1/8PA)DELPHI	2003/2013	0.525 +/-0.025	110
A3/S3/RS3 (8V 1/8V7/8VA/8VS)DENSO	2012	0.500 +/-0.015	110
A3/S3/RS3 (8V 1/8V7/8VA/8VS)SANDEN	2012	0.500 +/-0.015	75
A3 E-TRON 1.4HYBRTD	2014	0.500 +/-0.015	200
A4/S4 (8D2/8D5/B5)	1995/2001	0.575 ~ 0.725	250/300
A4/S4/RS4 (8E2/8E5/B6)	2000/2004	0.500 +/-0.025	120
A4/S4/RS4 (8EC/8ED/B7)	2004/2008	0.440 ~ 0.500	120
A4/S4/RS4 (8K2/8K5/8KH/B8)DENSO	2007/2012	0.570 +/-0.020	150
A4 (8W2/8WS/8WH/B8)DENSO	2015	0.590 +/-0.015	110
A5/S5/RS5 (8T3/8F7/8TA) DENSO	2007/2012	0.600 +/-0.020	150
A5/S5/RS5 (8T3/8F7/8TA) DENSO	2012	0.600 +/-0.020	100
A6/S6/RS6 (4B/C5)	1997/2005	0.675 ~ 0.775	250/300
A6/S6/RS6 (4F2/4F5)	2004	0.530 +/-0.020	130
S6/RS6 (4G2/4G5/4GC/4GD/4GH/4GJ)DEL	2010	0.570 +/-0.020	120
A7 SPORTBACK (4GA/4GF)DENSO	2010	0.570 +/-0.020	120
A8/S8 (4D2/4D8)	1994/2002	0.800 +/-0.020	200
A8/S8 (4E)DENSO	2002/2010	0.600 +/-0.050	180
A8/S8 (4H)	2009	0.780 ~ 0.930	130/150
ALLROAD (4BH)	2000/2005	0.800 +/-0.050	200
Q3 (8U)DENSO	2011	0.520 +/-0.015	110
Q3 (8U)SANDEN	2011	0.520 +/-0.015	75
Q5 (8R)DENSO	2008/2012	0.570 +/-0.020	140
Q5 (8R)DENSO	2012	0.500 +/-0.020	110
Q5 (8R)HYBRID	2011/2012	0.840 +/-0.020	200 ND-11
Q5 (8R)HYBRID	2012	0.900 +/-0.015	200 ND-11
Q7 (4L)	2006/2015	0.725 ~ 1075	150/250

AUDI

MODEL	YEAR	A/C (kg)	OIL (ml)
Q7 (4M)DENSO	2015	0.700 0.950	110/150
R8	2007/2015	0.650 +/-0.020	150
TT/TTS (8N3/8N9)SANDEN	1998/2006	0.775 +/-0.025	135
TT/TTRS (8J3/8J9)DENSO/SANDEN	2006/2014	0.525 +/-0.025	90/110
TT/TTS (FV3/FV9)DENSO/SANDEN	2007/2014	0.500 +/-0.015	75/110

BMW

MODEL	YEAR	A/C (kg)	OIL (ml)
1-SERIES (E81/E82/E87/E88)	2004/2010	0.590 +/-0.010	130
1-SERIES (E81/E82/E87/E88)	2010/2013	0.620 +/-0.010	130
1-SERIES (F20/F21)	2011	0.500 +/-0.010	130
2-SERIES COUPE/CABRIO (F22/F23)	2013	0.500 +/-0.010	100/150
2-SERIES TOURER (F45/F46)	2014	0.500 +/-0.010	110
3-SERIES (E46)	1998/2007	0.680'0.740	130
3-SERIES (E90/E91/E92/E93)	2005/2013	0.590 +/-0.010	130
3-SERIES (F30/F31/F34/F35/F80)	2011	0.550 +/-0.010	130
3-SERIES (F30/F35/F80)ACTIVE HYBRID	201Z	0.550 +/-0.010	130
4-SERIES (F32/F33/F36/F82/F83)	2013	0.550 +/-0.010	130
5-SERIES (E39)DENSO	1995/2004	1225 +/-0.025	150
5-SERIES (E39)SEIKO SEIKI	1995/2004	0.750 +/-0.010	150
5-SERIES (E39)DENSO	1998/2004	0.680 +/-0.010	150
5-SERIES (E60/E61)	2003/2010	0.700~0.810	130/160
5-SERIES (F07/F10/F11)	2009	0.850 +/-0.010	100/130
5-SERIES (F10)ACTIVE HYBRID	2011	0.850 +/-0.010	150
6-SERIES (E63/E64)	2004/2010	0.810 +/-0.010	150
6-SERIES (F12/F13)	2011	0.850 +/-0.010	150
7-SERIES (E38)DENSO	1994/2001	0.680 +/-0.010	150
7-SERIES (E38)DENSO 725TDS	1996/2001	1210 +/-0.025	200
7-SERIES (E38)DENSO750IL	1994/2001	1210~1400	150/180
7-SERIES (E65/E66)	2001/2008	0.810 +/-0.010	150
7-SERIES (F01/F02/F03/F04)	2008	0.900 +/-0.010	150
7-SERIES (F01/F02/F04)ACTIVE HYBRID	2012	0.975 +/-0.010	150

BMW

MODEL	YEAR	A/C (kg)	OIL (ml)
7-SERIES (G11/G12)HVCC	2015	0.550 +/-0.010	110
i3 (I01)HVCC ELECTRIC	2012	0.750~970	180
i8 (I12)HYBRID	2014	0.630 +/-0.010	180
X1 (E84)	2009/2015	0.590 +/-0.010	150
X1 (F48)HVCC	2015	0.480 +/-0.010	110
X3 (E83)	2004/2011	0.680~0.740	130
X3 (F25)/X4(F26)	2010	0.480 +/-0.010	100/150
X5/X6 (E70/E71/E72)	2007/2014	0.700 +/-0.010	130
X5/X6 (F15/F16/F85/F86)	2013	0.675 +/-0.010	130
X5 (F15)/X6(E72)ACTIVE HYBRID	2010	0.675 +/-0.010	130
X5 (F15)2.0DIESEL	2015	0.675 +/-0.010	110
Z3 (E36)DENSO/SEIKO SEIKI	1995/2003	0.825~1000	100/150
Z4 (E85/E86)	2003/2009	0.550 +/-0.010	130
Z4 (E89)	2009	0.580 +/-0.010	130

CITROEN

MODEL	YEAR	A/C (kg)	OIL (ml)
BERLINGO	1993 - 2003	0.875 +/-0.025	130
C2	2004 - 2006	0.600 +/-0.025	120
C3	2002 - 2006	0.625 +/-0.025	120
CS	2001 - 2004	0.675 +/-0.025	120
Xantia (SDV16)	1994 - 1998	0.870 +/-0.025	140
Xantia	1994 - 1998	0.975 +/-0.025	140
XM 3.0 V6	1994 - 2000	1.000 +/-0.025	150
Xsara	1998 - 2000	0.975 +/-0.025	150
Xsara	2000 - 2005	0.565 +/-0.025	100

CHRYSLER / JEEP

MODEL	YEAR	A/C (kg)	OIL (ml)
CHEROKEE, COMANCHE & WAGONEER	1989	0.90	140
	1990 - 93	1.05	150
	1994	1.05	150
	1995 - 96	0.90	140
	1997 - 98	0.55	100
	1998 - 2000	0.57	110
Cherokee KJ	2001 - 2006	0.74	120
Grand Cherokee	1993	0.80	130
	1994 - 97	0.80	130
	1998	0.75	120
Grand Cherokee ZG	1996 - 1999	0.80	130
Grand Cherokee WJ/ZG	1999 - 2005	0.77	130
Grand Wagoneer	1989 - 91	0.90	140
	1993	0.80	130
J10-20	1989 - 91	0.90	140
Wrangler	1989	0.90	140
	1990 - 91	0.90	140
	1992 - 93	0.90	140
	1994	0.90	140
	1995	0.90	140
	1996 - 2006	0.57	110
Neon	1996 - 1999	0.82	130
Neon PL2000	1999 - 2002	0.79	130
PT Cruiser	2000 - 2002	0.71	130
PT Cruiser	2003 - 2005	0.51	100
Voyager single A/C	1994 - 2001	0.96	140
Voyager with rear A/C	1995 - 2001	1.36	170
Voyager single A/C	2001 - 2006	0.88	130
Voyager with rear A/C	2002 - 2006	1.21	180

DAEWOO

MODEL	YEAR	A/C (kg)	OIL (ml)
1.5i	1994 - 1995	0.730 +/-0.020	130
Cielo	1995 - 1997	0.730 +/-0.020	130
Espero	1995 - 1997	0.730 +/-0.020	130
Kalos	2003 - 2004	0.600 +/-0.020	120
Korando	1998 - 2003	0.700 +/-0.050	130
Lacetti	2003 - 2004	0.680 +/-0.020	120
Lanos	1997 - 2003	0.720 +/-0.020	130
Legenza	1997 - 2002	0.830 +/-0.020	130
Matiz	1999 - 2001	0.550 +/-0.020	110
Matiz	2002 - 2004	0.500 +/-0.020	100
Musso	1999 - 2003	0.700 +/-0.500	120
Nubira	1997 - 2000	0.820 +/-0.020	130
Tacuma	2000 - 2004	0.820 +/-0.020	130

DAIHATSU

MODEL	YEAR	A/C (kg)	OIL (ml)
CHARADE	1989 - 92	0.65	110
G 202 (ND)	-	0.65 +/-0.05	110
ROCKY	1990 - 92	0.75	120
Applause	1993 - 1997	0.550 +/-0.050	100
Applause	Oct 97 - 1999	0.450 +/-0.030	100
Centro	1995 - 1998	0.500 +/-0.030	100
Charade G200/202/203	1993 - 2000	0.650 +/-0.050	110
Charade L251RS	2003 - 2005	0.300 +/-0.020	80
Copen	2003 - 2006	0.350 +/-0.020	80
Cuore	2000 - 2003	0.380 +/-0.030	80
Feroza	1993 - 1997	0.500 +/-0.050	100
Mira/L200	1993 - 1995	0.475 +/-0.025	90
Mira/LSOOR	1995 - 1997	0.500 +/-0.030	90
Move	1997 - 2000	0.550 +/-0.030	110
Pyzar	1997 - 2000	0.650 +/-0.050	110
Rockv	1993 - 1999	0.500~0.600	100

DAIHATSU

MODEL	YEAR	A/C (kg)	OIL (ml)
SIRION	1998 - 2005	0.380 +/-0.020	80
Terios	1997 - 2001	0.600 +/-0.020	110
YRV	2001 - 2004	0.390 +/-0.020	80
Feroza	1997 - 2002	0.620 +/-0.030	110
TF 1.6L	2002 - 2005	0.620 +/-0.30	110
TF 1.8L	2002 - 2005	0.720 +/-0.030	120
TR/TS	2004 - 2005	0.640 +/-0.030	110
TZ	2002 - 2005	0.450 +/-0.030	90

FORD

MODEL	YEAR	A/C (kg)	OIL (ml)
Aerostar W/Front & Rear A/C	1989 - 92	1.50	180
	1993	1.70	180
	1994	2.02	220
	1995 - 97	1.01	150
Aerostar W/Front A/C Only	1989 - 92	1.50	180
	1993	1.30	170
	1994	1.65	200
	1995 - 97	0.70	130
Aspire	1994 - 97	0.70	120
Branco	1989 - 90	1.45	180
	1991 - 93	1.25	170
	1994 - 95	0.90	150
	1996	1.05	150
Branco II	1989	1.10	160
	1990	0.90	150
Capri 1.6L	1991 - 93	0.70	120
	1994	0.55	100
Continental	1989 - 94	1.10	150
	1995 - 98	0.95	140
Contour & Mystique	1995 - 97	0.70	120

FORD

MODEL	YEAR	A/C (kg)	OIL (ml)
Contour & Thunderbird	1989 - 93	1.10	150
	1994 - 97	1.01	150
Courier (ND)	PUT 148	0.65	120
Crown Victory &	1989 - 91	1.35	150
E150-350 W/Front & Rear A/C Only	1989 - 91	1.90	200
	1992	2.00	200
	1993	2.03	200
	1994 - 95	1.80	180
E150-350 W/Front & Rear Only	1996 - 98	1.80	180
E150-350 W/Front A/C Only	1989 - 93	1.50	180
	1994	1.35	160
	1995 - 96	1.25	160
	1997	1.45	180
	1998	1.25	160
Ecosport	1.5 TIVCI	0.62	110
Escort, Tracer & ZS2	1989 - 90	1.01	150
	1991 - 93	0.95	140
	1994 - 99	0.80	130
Everest	2016	0.97	150
Expedition W/Front&Rear A/C Only	1991 - 93	0.90	150
	1994	1.01	150
	1995 - 96	0.75	130
	1997	0.60	120
	1998	0.85	130
Explorer UT/UX/UZ: Single A/C	2001 - 2006	0.910 +/-0.030	140
Explorer UT/UX/UZ: with Rear A/C	2001 - 2006	1.590 +/-0.050	180
F150,F350 & Super Duty	1997	1.05	150
	1989 - 90	1.45	180
	1991 - 93	1.25	170
	1994 - 95	0.90	150
	1996	1.05	150
F250 Single A/C	2001 - 2006	1.130 +/-0.050	160

FORD

MODEL	YEAR	A/C (kg)	OIL (ml)
F250 with rear A/C	2001 - 2006	1.930 +/-0.050	200
Festiva	1989 - 93	0.70	120
Fiesta	1.0 Ecoboost	0.62	110
	1.5/1.6	0.39	90
	1.6 Ecoboost	0.67	110
Focus	1.5	0.63	110
	2.0ST	0.60	110
Focus LR/LS	2002 - 2006	0.740 +/-0.015	120
F-Super Duty 250,350,450& 550	1999	1.90	200
Grand Marquis	1992	1.01	150
	1993	1.35	180
	1994	1.10	150
	1995 - 97	0.95	150
	1998	1.35	180
Kuga	1.5	0.67	110
Laser (ND)	CT - 75	0.75 +/-0.05	130
Mark VII	1989 - 92	1.10	150
	1992	0.95	150
	1994	1.10	150
	1995 - 98	0.95	150
Mercur Scorpio & R4Ti Mustang	1989 - 93	1.10	150
	1994 - 98	0.95	150
Modeo	2.5L	0.52	100
	2L	0.57	110
Probe 2.0L	1993 - 94	1.10	150
	1995 - 97	0.80	130
Probe 2.2L	1989 - 92	1.10	150
Probe 2.5L	1993 - 94	1.10	150
	1995 - 97	0.80	130
Probe 3.0L	1990 - 92	1.10	150

FORD

MODEL	YEAR	A/C (kg)	OIL (ml)
E150-350 W/Front A/C Only	1989 - 93	1.50	180
	1994	1.35	160
	1995 - 96	1.25	160
	1997	1.45	180
	1998	1.25	160
	1989 - 91	1.90	200
	1992	2.00	200
	1993	2.03	200
	1994 - 98	1.80	180
Expedition W/Front&Rear A/C Only	1991 - 93	0.90	150
	1994	1.01	150
	1995 - 96	0.75	130
	1997	0.60	120
	1998	0.85	130
Sable & Taurus 3.8L	1995	0.90	140
Taurus 2.5L	1989 - 90	1.25	170
	1991	1.10	160
Taurus 3.0L SHO	1989 - 90	1.25	170
	1991 - 92	1.10	160
	1993 - 95	0.90	150
Taurus 3.4L SHO	1993 - 95	0.90	150
Tempo & Topaz 2.3L	1989 - 91	1.01	150
	1992	1.01	150
	1993	0.95	150
	1994	0.90	140
Tempo & Topaz 3.0L	1992	1.01	150
	1993	0.95	140
	1994	0.90	140

FORD

MODEL	YEAR	A/C (kg)	OIL (ml)
Town Car	1989 - 90	1.35	170
	1991 - 92	1.10	160
	1993	1.01	150
	1994	1.10	160
	1995 - 96	0.95	150
	1997	1.00	150
Aerostar W/Front A/C Only	1989 - 92	1.50	180
	1993	1.30	170
	1994	1.65	200
	1995 - 97	0.70	130
Aerostar W/Front & Rear A/C	1989	1.5	180
	1990 - 92	1.50	180
	1993	1.70	180
	1994	2.02	220
	1995 - 97	1.01	150
Branco	1989 - 90	1.45	180
	1991 - 93	1.25	170
	1994 - 95	0.90	150
	1996	1.05	150
Branco II	1989	1.10	160
	1990	0.90	150
F150-350 & Super Duty	1989 - 90	1.45	180
	1991 - 92	1.25	170
	1993	1.25	170
	1994 - 95	0.90	150
	1996	1.05	150
F150,F350 & Super Duty	1997	1.05	150
F-Super Duty 250,350,450& 550	1999	1.90	200

FORD

MODEL	YEAR	A/C (kg)	OIL (ml)
Ranger	Below 2013	0.65	110
	Above 2013	0.56	100
	2006	0.47	100
Ranger 2.3L	1989	1.01	150
	1990 - 93	0.90	140
	1994	1.01	150
	1995 - 96	0.65	120
	1997	0.60	120
Ranger 2.5L	1998	0.85	130
Ranger 2.9L	1989	1.01	150
	1990 - 92	1.90	200
Ranger 3.0L & 4.0L	1990 - 93	0.90	140
	1994	1.01	150
	1995 - 96	0.65	120
	1997	0.60	120
	1998	0.85	130
Sable & Taurus 3.0L	1989 - 90	1.25	160
	1991 - 92	1.10	150
	1993 - 95	0.90	140
	1996 - 98	0.95	140
Sable & Taurus 3.8L	1989 - 92	1.10	150
	1993 - 95	0.90	140
SMAX	2014	0.60	110
SMAX	2016	0.56	100
Taurus 2.5L	1989 - 90	1.25	170
	1991	1.10	160
Taurus 3.4L SHO	1993 - 95	0.90	150
Taurus 3.0L SHO	1989 - 90	1.25	170
	1991 - 92	1.10	160
	1993 - 95	0.90	150

FORD

MODEL	YEAR	A/C (kg)	OIL (ml)
Telstar (Facelift) (ND)	GT2F,	0.650~0.700	120
	FTOJ,	0.650~0.700	120
	GTIS	0.650~0.700	120
Tempo & Topaz 2.3L	1989 - 92	1.01	150
	1993	0.95	150
	1994	0.90	140
Tempo & Topaz 3.0L	1992	1.01	150
	1993	0.95	140
	1994	0.90	140
Town Car	1989 - 90	1.35	170
	1991 - 92	1.10	160
	1993	1.01	150
	1994	1.10	160
	1995 - 96	0.95	150
	1997	1.00	150
Transit VF/VG	1996 - 2000	0.900 +/-0.020	150
Transit VH/VJ: Single A/C	2001 - 2006	0.990 +/-0.020	150
Transit VH/VJ: with Rear A/C	1995 - 96	1.25	160
Villager W/Front & Rear A/C Only	1993	1.55	180
	1994	1.45	180
	1995 - 96	1.45	180
	1997 - 98	1.45	180
Villager W/Front A/C Only	1993	1.01	150
	1994 - 98	0.90	140
Windstar W/Front A/C Only	1995 - 96	1.25	160
Windstar W/Front & Rear Only	1995 - 96	1.55	180
	1997	1.25	160
	1998	1.25	160

HINO

MODEL	YEAR	A/C (kg)	OIL (ml)
WU600 / WU640	2012	0.60 +/-0.02	110
WU710 / WU720	2012	0.40 +/-0.02	90
XZU720 / WZU730	2012	0.40 +/-0.02	90
XZU730 - CREW	2012	0.40 +/-0.02	90

HONDA

MODEL	YEAR	A/C (kg)	OIL (ml)
ACCORD	1989	0.85	130
	1990 - 92	0.80	130
	1993	0.75 +/-0.10	120
	1994	0.65	120
	1999	0.65	120
	2013	0.45	100
	2009 - 2012	0.43	90
	2015	0.43	90
ACCORD - UA	2013	0.500~0.550	100
ACCORD - UR	2005	0.500~0.550	100
ACCORD (ND)	1994	0.65	110
ACCORD LS (ND)	1999	0.65	110
ACCORD V6	1995 - 97	0.60	110
	1998	0.65	110
BRV	2017	0.4	90
CITY	2012	0.41	90
	2015	0.43	90
CITY - LQ	V - DSI (CVT - 2005)	0.450~0.530	90
CITY - MN	IDS1 (2005)	0.480~0.530	90
CIVIC	1988	0.75	120
	1992 - 94	0.65	110
	1996	0.50	100
	2012	0.41	80
	2015	0.43	90
CIVIC - ZP	V-DSI (2004)	0.450~0.530	90

HONDA

MODEL	YEAR	A/C (kg)	OIL (ml)
CIVIC SANDEN	1989 - 90	0.90	130
	1991	0.85 +/-0.1	130
	1992	0.65	110
	1993	0.60	110
	1994 - 95	0.55	100
	1996 - 98	0.65	110
CIVIC- UH	IDSI (2.0 A/T) (2005)	0.450~0.530	90
CIVIC- UH	(1.8 M/T) (2005)	0.450~0.530	90
CIVIC WAGON	1990	0.90	140
	1990	0.95 +/-0.1	140
CRV	2012	0.41	90
	2015	0.40	90
	2015	0.43	90
	1997 - 98	0.70	120
CRV - KL	KL(2002)	0.480~0.530	90
CRV - WK	WK(2005)	0.480~0.530	90
CR-X	1989 - 91	0.90	130
DEL SOL	1993	0.65	110
	1994 - 95	0.55	100
	1996	0.85	130
Elysion(MPV)-2.4	2012	0.68	110
HRV	2017	0.42	90
INSIGHT	2012	0.46	90
Jazz	2002 - 2006	0.425 +/-0.025	90
	2012	0.38	90
Legend	1994 - 1995	0.675 +/-0.025	120
	1993	0.725 +/-0.025	120
Legend (A/T)	1992	0.700~0.800	130
Legend 3rd Gen	1996 - 2004	0.725 +/-0.025	130
Legend ND (A/T)	1992	0.75	130
MDX	2003 - 2006	0.700 +/-0.025	130
NSX	1993 - 1997	0.825 +/-0.025	130

HONDA

MODEL	YEAR	A/C (kg)	OIL (ml)
Odyssey	1995 - 98	1.5	180
Odyssey 1st Gen: Single A/C	1995 - 2000	0.625 +/-0.025	110
Odyssey 1st Gen: with Rear A/C	1995 - 2000	0.825 +/-0.025	130
Odyssey 2nd Gen	2000 - 2004	0.975 +/-0.025	140
Odyssey 3rd Gen	2004 - 2006	0.725 +/-0.025	130
PASSPORT	1994 - 98	0.65	110
PRELUDE	1989	0.95	140
	1990 - 91	0.90	140
	1992	0.75	120
	1993 - 94	0.50	100
	1995 - 96	0.65	110
	1997 - 98	0.75	130
	1999 - 2000	0.725 +/-0.025	130
S2000	1999 - 2006	0.625 +/-0.025	110
Steam	2012	0.41	90

HYUNDAI

MODEL	YEAR	A/C (kg)	OIL (ml)
110	PA	0.45 +/-0.05	80
140	VF	0.55 +/-0.05	100
ACCENT	1995 - 98	0.55	110
	LC / MC	0.55 +/-0.05	100
Accent LC 1.5L/1.6L	2000 - 2006	0.550 +/-0.025	110
ATOS	MX	0.50 +/-0.05	100
Coupe	1996-2002	0.600 +/-0.025	120
	GK	0.60 +/-0.05	110
ELANTRA	1992 - 93	0.95	140
	1994 - 95	0.65	110
	1996 - 98	0.70	120
	XD	0.60 +/-0.05	110
	HD	0.50 +/-0.05	100
	MD 1.6 / 1.8	0.50 +/-0.05	100

HYUNDAI

MODEL	YEAR	A/C (kg)	OIL (ml)
Elantra XD	2000 - 2006	0.550 +/-0.025	110
EXCEL	1989	0.85	130
	1990	0.8	130
	1991 - 93	0.85	130
	1994	0.70	120
	1994 - 2000	0.68	110
Getz	2002 - 2006	0.50	100
Grandeur XG	1999 - 2002	0.675 +/-0.025	110
Lantra	1994 - 2000	0.700 +/-0.025	120
MATRIX	DC	0.57 +/-0.05	100
Naza Ria	-	1.05	150
S Coupe	1994 - 1995	0.675	110
	1991 - 93	0.85	130
	1994 - 95	0.65	110
SANTA FE	SM	0.60 +/-0.05	110
	CM	0.75 +/-0.05	130
	CM	0.55 +/-0.05	110
	DM	0.65 +/-0.05	130
SONATA	1989 - 94	0.85	130
	1995	0.75	120
	1996 - 98	0.70	120
	1994 - 1995	0.675 - 0.0825	120
	1996 - 1998	0.625 +/-0.025	120
	EF	0.58 +/-0.05	110
	EF	0.58 +/-0.05	110
	NF	0.55 +/-0.05	110
	YF	0.55 +/-0.05	110
	LF	0.55 +/-0.05	110
STAREX	TQ	0.85 +/-0.05	130
Terracan HP	2001 - 2006	0.850 +/-0.025	130
TIBURON	1997 - 98	0.70	120
Tiburon GK	2002 - 2006	0.600 +/-0.025	110

HYUNDAI

MODEL	YEAR	A/C (kg)	OIL (ml)
TRAJET: Single A/C	FO	0.65 +/- 0.05	110
TRAJET: Dual A/C	FO	0.85 +/- 0.05	130
Trajjet FO single A/C	2000 - 2006	0.670 +/- 0.025	110
Trajjet FO with rear A/C	2001 - 2006	0.850 +/- 0.025	130
Trajjet-D	-	0.85	130
Trajjet-S	-	0.65	110
TUCSON	JM	0.51 +/- 0.05	100
TUCSON	LM	0.51 +/- 0.05	100
TUCSON	TL	0.51 +/- 0.05	100
Veloster	FS	0.42 +/- 0.05	90

HICOM

MODEL	YEAR	A/C (kg)	OIL (ml)
PERKASA ND	140,150T(12V)	0.55 +/- 0.05	110
	150DX (24V)	0.55 +/- 0.05	110
Lorry Mas	-	0.45	100
Perkasa Panasoni	12V	0.45	100
Perkasa Panasoni	24V	0.48	100

ISUZU

MODEL	YEAR	A/C (kg)	OIL (ml)
AMIGO	1989 - 92	0.85	130
	1993	0.75	120
	1994	0.65	110
	1998	0.60	110
D Max	2009	0.55	100
HOMBRE	1996 - 98	0.90	140
I - MARIA	1989	0.80	130
IMPULSE	1989 - 91	1.00	150
	1992	0.60	110
OASIS	1996 - 98	1.50	180

ISUZU

MODEL	YEAR	A/C (kg)	OIL (ml)
PICKUP	1989 - 92	0.85	130
	1993	0.75	120
	1994 - 95	0.65	110
RODEO	1991 - 92	1.00	150
	1993	0.75	120
	1994 - 98	0.65	110
STYLUS	1991	0.75	120
	1992 - 93	0.60	110
TROOPER	1989 - 91	0.95	150
	1992 - 93	0.85	130
	1994 - 97	0.75	120
	1998	0.60	110

JAGUAR

MODEL	YEAR	A/C (kg)	OIL (ml)
Daimler Double Six	1994 - 1997	0.68	110
Daimler Six	1994 - 1997	1.15	150
S Type X200	1999 - 2002	0.800+/-0.025	130
S type X202	2002 - 2006	0.750+/-0.025	120
Sovereign	1994 - 2002	1.15	160
X Type	2001 - 2006	0.810+/-0.025	130
XJ Series X308	1997 - 2003	0.675+/-0.025	110
XJ Series X350 4 Zone Air	2003 - 2006	0.800+/-0.025	130
XJ Series xX350 2 Zone Air	2003 - 2006	0.650+/-0.025	110
XJ6	1994 - 1997	1.15	150
XJR	1994 - 1997	1.15	150
XK8	1996 - 2002	0.650+/-0.050	110

KIA

MODEL	YEAR	A/C (kg)	OIL (ml)
Carens	2000 - 2002	0.6	130
Carens II	2004	0.58	110
Carens UN Rondo	2007	0.45	90
Carnival GV6 V6	2002 - 2006	1	150
Carnival K5 V6	1999 - 2002	1.15	160
Cerato 1.6 / 2.0	-	0.53	100
Cerato LD	2004 - 2006	0.50	100
Credos	1998 - 2001	0.7	120
Forte 1.6	-	0.48	100
Forte 2.0	-	0.53	100
K3	2016	0.53	100
Mentor	1996 - 2000	0.7	120
Nasa Sutra	-	0.45	90
Naza Ria	2004	1.00	150
Optima GD	2001 - 2006	0.67	110
Optima TF	-	0.55	100
Picanto SA	2004	0.45	90
Picanto TA	2012	0.37	90
Pregio CT	2000 - 2001	0.83	130
Rio	2003 - 2006	0.55	110
Rio UB	2013	0.42	90
Sephia	1994 - 98	0.6	120
Shuma	2000 - 2001	0.70	120
Sorento BL	2003 - 2006	0.6	110
Sorento BL Diesel	-	0.6	110
Sorento XM	-	0.75	120
Spectra	2001 - 2003	0.6	120
Sportage	1997 - 2003	0.6	120
Sportage KM	2007	0.51	100
Sportage SL	2012	0.51	100
	2014	0.55	100
Sportage SLE	2014	0.60	100

LAND ROVER

MODEL	YEAR	A/C (kg)	OIL (ml)
DEFENDER	1993 - 95	1.05	150
	1997	0.90	140
	1999 - 2006	0.750 +/- 0.050	120
DISCOVERY: Single A/C	1993 - 98	0.90	140
DISCOVERY: with Rear A/C	1993 - 98	1.15	150
Discovery Series II: Single A/C	1999 - 2004	0.700 +/- 0.025	120
Discovery Series II: with Rear A/C	1999 - 2004	0.900 +/- 0.025	140
Freelander	1997 - 2000	0.725 +/- 0.025	120
Freelander	Oct 00 - 2006	0.540 +/- 0.025	100
RANGE ROVER	1996 - 98	1.25	160
	1995 - 97	0.90	140
Range Rover P38A	1995 - 2002	1.25	160
Range Rover L332	2002 - 2006	0.510 +/- 0.015	100
Range Rover	"Autoligia play, Double Blower"	1.15	170
Range Rover TD4	-	0.54	100
Range Rover V8	"Over Finch 750g Double Blower"	0.93	150
Range Rover Evoque Si4	-	0.65	110
Range Rover Sport	Double Blower	1.15	170

LEXUS

MODEL	YEAR	A/C (kg)	OIL (ml)
ES250	1990 - 91	0.6	110
ES300	1992 - 2001	0.85	130
ES300 MCV30R	2001 - 2006	0.80	130
GS300 / GS400	1993 - 97	0.85	130
GS300 / GS400	1998	0.70	120
GS300 / GS400	1998 - 2004	0.60	110
IS200	1999 - 2005	0.60	110
IS300	2001 - 2005	0.60	110
LS400	1990 - 92	1.05	150

LEXUS

MODEL	YEAR	A/C (kg)	OIL (ml)
LS400 with Single A/C	1993 - 96	0.95	140
LS400 with Single A/C	1996 - 2000	0.70	120
LS400 with Rear A/C	1993 - 96	1.2	160
LS400 with Rear A/C	1996 - 2000	0.95	140
LS430 with Single A/C	2000 - 2006	0.65	110
LS430 with Rear A/C	2000 - 2006	0.9	140
LX450	1996 - 97	0.85	130
LX470	1998 - 2006	1.05	150
LX470 with Coolbox	1998 - 2006	1.15	160
RX330	2003 - 2005	0.575	100
SC300 / SC400	1992	0.85	130
SC300 / SC400	1993	0.95	140
SC300 / SC400	1994 - 95	0.85	130
SC300 / SC400	1996 - 98	0.95	140
SC430	2001 - 2006	0.70	120

MAZDA

MODEL	YEAR	A/C (kg)	OIL (ml)
929	1989 - 91	1.00+/-0.10	150
	1993	0.85	130
	1994 - 95	0.75	120
	1996 - 1997	0.70	120
323 & PROTÉGÉ	1989 - 94	0.75+/-0.10	120
323 & PROTÉGÉ	1995 - 98	0.60	110
323 Bseries	1998 - 2003	0.63	110
626 GE	1993 - 1997	0.750+/-0.025	120
626 Wagon	1993 - 1997	0.600+/-0.25	110
626-26 line condenser	1997 - 2002	0.63	110
	1997 - 2002	0.70	120
B2200 & B2500	1989	0.80+/-0.10	130
	1990 - 93	0.75	120
B2300,B3000	1994 - 96	0.60	110

MAZDA

MODEL	YEAR	A/C (kg)	OIL (ml)
B2500,B3000	1998	0.85	130
B4000	1997	0.60	110
Biante MPV	2014	0.75	120
CX5 2.5L	2014	0.49	100
Fighter(BTSO)	2010 - 2015	0.60	110
Lantis	UMS	0.80	130
Mazda2	2002 - 2006	0.47	90
	2014	0.42	80
Mazda3	2002 - 2006	0.50	90
	2014	0.49	90
Mazda6	2002 - 2006	0.43	90
MIATA	1990 - 92	0.80	130
	1993	0.75	120
	1994 - 97	0.60	110
MILLENA	1995	0.75	120
MILLENA	1995 - 98	0.75	120
MPV	1989 - 93	2.55	250
MPV	1994	2.30	230
MPV	1995 - 96	1.90	200
MPV	1997 - 98	1.00	150
MPV single A/C	1994 - 1999	1.050+/-0.050	150
MPV single A/C	Aug99 - 2002	0.65	110
MPV with rear A/C	1994 - 1999	1.150+/-0.050	150
MPV with rear A/C	Aug99 - 2002	0.85	130
MX3	1993	0.85	130
	1994 - 95	0.75	120
MX-6 & 626	1989 - 93	0.95+/-0.10	140
	1994 - 97	0.70	120
	1998	0.75	120
NAVAJO	1991 - 94	0.75	120
Premacy	2001 - 2003	0.515+/-0.25	100

MAZDA

MODEL	YEAR	A/C (kg)	OIL (ml)
RX7	1992 - 1998	0.55	100
	1989 - 91	0.80	130
	1993	0.60	110
	1994 - 95	0.45+/-0.10	90
RX8	2003-2006	0.43	90
Tribute YU	2001-2006	0.85	130

MERCEDES BENZ

MODEL	YEAR	A/C (kg)	OIL (ml)
190D	1989	1.00	150
190E	1989 - 93	1.00	150
260E	1989	1.00	150
300CE, E & TE	1990 - 92	1.00	150
	1993	0.95	150
300D	1990 - 92	1.30	170
	1993	0.95	140
300SD & SE, 400SE	1992 - 93	2.50	150
300SE & SEL, 350SD	1989 - 91	1.30	170
300SL, SOOSL &	1989 - 92	1.00	150
400E & SOOE	1992	2.55	250
	1993	0.95	140
600SL	1993	0.95	140
A Class W168	1998 - 2005	0.600 +/- 0.030	110
A Class W169	-	0.70	120
A Class W176	-	0.65	120
A205	-	0.63	90
B Class W178	-	0.55	110
B Class W245	2008	0.77	120
B Class W177	-	0.77	120
C Class W201/202	1994 - 1997	0.85	130
C Class W203	2000 - Apr 04	0.700 +/- 0.050	120
C Class W203	Apr 04 - 2006	0.85	130

MERCEDES BENZ

MODEL	YEAR	A/C (kg)	OIL (ml)
C Class W204	2008	0.59	110
C36, C43, C220 & A107A1078:E1105	1993 - 98	0.95	140
CLA C117	-	0.65	110
CLK Class C208/A208	1997 - 2003	0.85	130
CLK Class C209	2002 - 2006	0.75	120
E Class A204	-	0.59	100
E Class W124/W210	1994 - 1997	0.950 +/- 0.050	140
E Class W210	1996 - 2002	1.000 +/- 0.050	150
E Class W211	2002 - 2006	0.95	140
E Class W212	2008 - 2011	0.59	110
E300, E320, E420	1994 - 98	0.95	100
M Class W163	1998 - 2005	0.75	120
MAYBACH 240 Series 57/63 sedan	2004 - 2006	0.95	140
ML 320	1998	0.65	110
S Class W140	1994 - 1999	1.15	160
S Class W220: Single A/C		0.95	140
S Class W220: with Rear A/C	1999 - 2006	1.05	150
S Class W221	2011	1.18	160
S320, S350, S420	1994 - 98	2.50	200
SL Class R129	1994 - 1999	0.95	140
SL Class R230	1999 - 2006	0.920 +/- 0.030	140
SL320 & SL500	1994 - 98	0.95	150
SLK 230	1998	0.95	150
SLK Class R170	2000 - 2004	0.85	130
Sprinter	1998 - 2006	0.810 +/- 0.050	130
Vito	1998 - 2004	0.880 +/- 0.030	130
Vito NCV2	2004 - 2006	0.550 +/- 0.030	100

MINI

MODEL	YEAR	A/C (kg)	OIL (ml)
MINI Cooper	2001	0.415 +/- 0.010	100
	2002-2006	0.44	100

MITSUBISHI

MODEL	YEAR	A/C (kg)	OIL (ml)
380	2005-2006	0.455+/-0.020	90
3000GT	1991	0.95	140
	1992-93	0.85	130
	1993-1997	0.825+/-0.025	130
	1998	0.75	120
ASX	2012	0.50	90
Challenger PA	1998-2006	0.625+/-0.025	110
Colt RG	2004-2006	0.550+/-0.020	100
DIAMANTE	1992 - 93	0.95 +/- 0.10	140
	1994 - 96	0.75	120
	1997 - 98	0.65	110
DIAMATE WAGON	1993	0.80	130
	1994 - 95	0.75	120
ECLIPSE	1990 - 94	0.90	140
	1995 - 98	0.65 +/-0.10	110
EXPO	1992 - 93	0.85	130
	1994 - 95	0.75	120
Express L300	1997-2005	0.725+/-0.025	120
Express SJ & WA	1993-1997	0.700+/-0.025	120
FTO	1996-2001	0.55	100
GALANT	1989 - 93	0.90	140
	1994 - 98	0.65	110
GRANDIS (DOUBLE)	2012	0.75	120
GRANDIS (SINGLE)	2012	0.55	100
GTO	1994-1999	0.65	110
LANCER	2012	0.48	90
Lancer CC Hatch	1993-1996	0.650+/-0.025	120
Lancer CE	1996-1998	0.575+/-0.020	100
Lancer CE II	1998-2003	0.575+/-0.020	100
Lancer CG/CH	2002-2006	0.550+/-0.020	100

MITSUBISHI

MODEL	YEAR	A/C (kg)	OIL (ml)
MIRAGE	1989 - 92	1.01	150
	1993 - 96	0.75	120
	1997 - 98	0.55 +/-0.05	100
	2012	0.27	60
Mirage CE	1995-2002	0.590+/-0.020	100
MONTERO	1989 - 91	0.90	140
	1992 - 93	0.80	130
	1994 - 98	0.60	110
MONTERO SPORT	1997 - 98	0.65	110
Outlander ZE/ZF	2003-2006	0.550+/-0.020	100
Pajero iO QA	1999-2002	0.570+/-0.020	100
Pajero NJ/NL	1993-2000	0.750+/-0.050	120
Pajero NM/NP	2000-2006	0.550+/-0.020	100
PAJERO SPORT	2012	0.65	110
PRECIS	1989	0.85 +/-0.15	130
	1990	0.80	130
	1991 - 93	0.85 +/-0.15	130
SIGMA	1989-90	0.90	140
STARION	1989	0.80	130
TRITON	2012	0.50	100
TRITON MJ	1994 - 97	0.72	130
TRITON MK	1997 - 2004	0.575	100
TRUCK	1990 - 93	0.85	130
	1994-96	0.75	120
VAN	1989-90	0.90	140
WAGON	1989-90	1.45	170

NISSAN

MODEL	YEAR	A/C (kg)	OIL (ml)
200SX	1995-98	0.59+/-0.10	100
	1994-2000	0.650+/-0.050	110
240SX	1989-90	1.00	150
	1991-93	0.90	140
	1995-98	0.59+/-0.10	110
300ZX	1989	1.08	150
	1990 Exc. Turbo	0.95	140
	1990 Turbo	0.85	130
	1991-93	0.85	130
	1994-96	0.60	110
350Z Z33	2002-2006	0.55	100
AD RESORT	Y10	0.60	110
Almera, N17 (Type 1 & 2)	N17	0.40	80
ALTIMA	1993-98	0.69+/-0.1	110
Bluebird	1993-1997	0.750+/-0.050	120
CEFIRO 2.0L & 3.0L FRONTIER MAXIMA	RA32	0.65	110
	1998	0.60	110
	1989-90	1.00	150
	1991-92	0.95	140
	1993-94	0.85	130
	1995	0.80	130
	1996	0.65	110
1997-98	0.65	110	
Cefiro, A33	A33	0.60	110
Elgrand (MVP)	2008	0.65	120
Elgrand,E52	E52	0.90	140
Fairlady, Z33	Z33	0.55	100
Frontier, D22	D22	0.60	110
Infinity Q45	1993-1997	0.80	130
J32 (2.0,2.5&3.5)	J32	0.55	100
Latio, C11 (Type 1 & 2)	C11	0.43	90
Leaf, ZE0	ZE0	0.40	80

NISSAN

MODEL	YEAR	A/C (kg)	OIL (ml)
Livina,L10	L10	0.43	90
March, K13	K13	0.40	80
Murano	1997-1999	0.750+/-0.050	120
Murano, Z50	Z50	0.53	100
Navara	2001-2006	0.50	100
Navara D21	2005-2006	0.525	100
Navara D22	1993-1997	0.800+/-0.050	130
Navara, D40	D40	0.60	120
NV 200	NV200	0.45	90
NX	1991-93	0.75	120
PATHFINDER	1989-92	0.90	140
	1993-95	0.80	130
	1996-98	0.65	110
Patrol GQ Y60	1994-1997	0.600+/-0.050	110
Patrol GQ Y61	1997-2006	0.800+/-0.050	130
PULSAR	1989-90	0.95	140
QUEST	1993	2.58	250
	1994-97	2.36	250
	1998	2.36	250
SENTRA	1989-90	0.95	140
	1991-93	0.75	120
	1994-98	0.60	110
Sentra, N16	N16	0.55	100
Sentra/Pulsar N15 2.6L	2016	0.80	130
Sentra/Pulsar N15 2.0L	1993-2000	0.550+/-0.050	100
Sentra/Pulsar N16	2000-2006	0.500+/-0.050	100
Sentra/Pulsar N15 1.6L	1993-2000	0.650+/-0.050	110
SERENA C23	C23	1.05	150
SERENA C24	2005	0.65-0.70	130
SERENA C26	C26	0.80	140
SERENA Double	2008	1.05	150
Slyphy/Livina/Latio	2009	0.43	90

NISSAN

MODEL	YEAR	A/C (kg)	OIL (ml)
STANZA	1989	1.08	150
	1990	0.90	140
	1991-92	0.85	130
Teana, J31	J31	0.50	100
TERRANO	WD21	0.80	130
Terrano II R20	1994-1997	1.10	160
Tiida	1997-2006	0.550+/-0.050	110
TRUCK	1989-92	0.90	130
	1993-97	0.74+/-0.1	120
Urvan	2008	0.45	100
	Single-2008	0.70	130
Urvan, E25 with Rear A/C	E25	1.05	150
Urvan, E25 without Rear A/C	E25	0.70	120
VAN	1989 - 90	3.05	250
Vanette	2006	0.45	90
VANETTE (Double)	C22	0.90	140
VANETTE (Single)	C22	0.60	110
X-Trail	1993-1997	0.550+/-0.050	110
X-Trail T30	2003	0.50	100
	2007	0.55	100
X-Trail T31	2011	0.50	100
X-Trail T32	2017	0.50	100
Z34	Z34	0.50	100
Z51	Z51	0.60	110

PERODUA

MODEL	YEAR	A/C (kg)	OIL (ml)
Alza	2008	0.38	80
Ativa	2020	0.37	80
Axia	2014	0.30	80
Aruz	2020	0.38	80
Bezza	2016	0.35	80
Kancil	ND	0.45	70
	SD	0.38	80
Kelisa sd	SD	0.30	80
Kenari nd	ND	0.30	70
Kembara		0.50	100
Myvi	2005	0.30	70
	2012 - 2019	0.33	80
Nautica		0.43	90
Rusa	Single A/C	0.45	90
	Dual A/C	0.75	120
Viva	2007	0.30	80

PEUGEOT

MODEL	YEAR	A/C (kg)	OIL (ml)
107	384F	0.450	90
	DV4TD	0.500	100
108	All models	0.400	80
206	TU/TUD/EW/DW/ EV/DV	0.725	120
	EV / DV (Except 1400 cc)	0.630	110
208	EC5	0.450	90
301	All models	0.425	90
	2001 - 2004	0.585	100
	June 2004 -	0.450	90
307 DV6	2004 - Nov 2004	0.585	100
	Dec 2004 -	0.450	90

PEUGEOT

MODEL	YEAR	A/C (kg)	OIL (ml)
407	EURO 4	0.650	110
	EURO 5 (ALL TYPE)	0.525	100
	EURO 4 (DT17/ DW12B)	0.525	100
508	All models	0.525	100
607	All models	0.700	120
807	DIESEL ENGINE	0.540	100
	PETROL ENGINE	0.675	110
1007	All models : Europe	0.500	100
	All models : Mer- cosur	0.600	110
2008	All models	0.450	90
2008	EC5 BVM / BVA	0.500	100
3008	All models	0.450	90
4007	All models	0.500	100
4008	All models	0.500	100
5008	All models	0.450	90
2008 CHINA	EW / EP6	0.550	100
206 Mercosur	All models	0.700	120
206+	All models	0.675	110
207 (A7)	All models	0.425	90
207 (T33) (Right-hand drive)	TU5JP4	0.720	120
207 (T34) Mercosur Hoggar (Pick up)	TU3 / TU5	0.475	90
207 China	All models	0.725	120
207 Iran	TU5JP4	0.600	110
207 Mercosur	TU3 BVM	0.500	100
208 (A9)	All models	0.450	90
301 CHINA	All models	0.450	90
307 China (5 door)	EC5	0.625	110
307 Mercosur	TU5 / EW10 / DW10	0.450	90
307 restyled (4 door)	All models	0.620	110
307 restyled Except 4-door	All models	0.450	90
308 (T7) RCZ	All models	0.425	90

PEUGEOT

MODEL	YEAR	A/C (kg)	OIL (ml)
308 (T9)	All models	0.450	90
308 (T9) China	All models	0.650	110
308 China	TUSJDTM	0.580	100
	EW10A	0.650	110
308 Mercosur	DV6CM / EC5 / EW10A	0.450	90
	EP6CDTM	0.400	80
308 Russia	ALL MODELS	0.425	90
408 China	EW / TU	0.475	90
408 Malaysia	EW / EP6	0.450	90
408 Mercosur	DV6CM	0.450	90
	EW10A	0.425	90
	EP6CDTM	0.400	80
408 Russia	All models	0.425	80
508 China	All models	0.475	90
607	EW / ES9 / DW10 / DW12B	0.625	110
	DT17	0.600	110
Al91 Mercosur	TU4 / EP6	0.500	100
	EP6F	0.550	100
BIPPER	All models	0.500	100
BOXER II	All models	0.75	130
BOXER III only Front A/C	All models	0.55	100
BOXER III with Rear A/C	All models	0.95	140
BOXER III Minibus	All models	2.60	250
EXPERT II	All models	0.95	150
Expert III Petrol	All models	0.675	110
Expert III Diesel	All models	0.54	100
Expert III Petrol Longwheel base	All models	1.075	150
Expert III Diesel Longwheel base	All models	0.95	150
iOn	All models	0.325	70
KO	All models	0.50	100

PEUGEOT

MODEL	YEAR	A/C (kg)	OIL (ml)
PARTNER (B9)	Mechanical	0.45	90
	Electrical	0.525	100
PARTNER (M59)	ALL MODELS	0.575	100
PARTNER (M59) Mercusor	TU3 / TU5 / DV6	0.45	90

PORSCHE

MODEL	YEAR	A/C (kg)	OIL (ml)
911	1989 Carrera	1.35	160
	1989 Carrera 4	0.95	140
	1989 911 Turbo	1.30	160
	1990-92	0.95	140
	1992	1.20	160
	1993-98	0.85	130
928	1989-91	0.95	140
	1993-95	0.85	130
	1993-1995	0.80	130
944	1989-91	0.95	140
968	1992	0.95	140
	1992 - 95	0.85	130
	1995-1995	0.80	130
986	1997-2005	0.85	130
911 993 Series	1994-1998	0.84	130
911 996 Series	1998-2005	0.90	140
928 with M570 unit	1993-1995	1.00	150
Boxster	1997-2002	0.85	130
Cayenne	2009	1.050	150
Cayenne	2016	1.10	160
Panamera	2015	0.57	110

PROTON

MODEL	YEAR	A/C (kg)	OIL (ml)
BLM		0.40	100
ERTIGA	2017	0.48	100
EXORA		0.80	120
FLX		0.40	100
GEN 2		0.55	100
INSPIRA 1.8 / 2.0	2012	0.50	90
IRIZ	2016	0.35	80
ISWARA	LM	0.50+/-0.05	100
ISWARA ND	C22	0.55+/-0.05	100
JUARA		0.40	80
PERDANA (PATCO)	PF41	0.65+/-0.05	100
PERDANA NO	PF41	0.50+/-0.05	100
PERDANA V6 (PATCO)	4GP AT/MT	0.65+/-0.05	100
PERSONA		0.55	100
PREVE	2015	0.55	100
PUTRA (PATCO)	GX	0.65 +/-0.05	100
SATRIA 1.6 / GTI (PATCO)	4G9 AT/MT	0.60+/-0.05	100
SATRIA 1.3 / NEO	4G1 AT/MT	0.55	90
SAVVY		0.50	100
TIARA NO		0.55+/-0.05	100
WAJA ND	AX1,1L	0.55+/-0.05	100
WAJA PATCO			100
WIRA 1.3/1.5 (PATCO)	4G1 AT/MT	0.55+/-0.05	100
WIRA 1.6 (PATCO)	4G9 AT/MT	0.55+/-0.05	100
WIRA ND (DIESEL)	2.0L	0.55+/-0.05	100
WIRA/SATRIA ND	C96,C97,C98,CC#1	0.55+/-0.05 R-134a	100
X50	2020	0.40	100
X70	2020	0.45	100

RENAULT

MODEL	YEAR	A/C (kg)	OIL (ml)
19	1994-1996	0.80 +/-0.05	130
Clio	2001-2006	0.66 +/-0.05	110
Kangoo	2004-2006	0.66 +/-0.05	110
Laguna	1995-1996	0.80 +/-0.05	130
Laguna	2002-2006	0.65 +/-0.05	110
Master	2004-2006	0.85 +/-0.05	130
Megane	2001-2004	0.76 +/-0.05	120
Megane II X84	2003-2006	0.55 +/-0.05	100
Scenic 1.6L	2001-2002	0.745 +/-0.05	120
Scenic 2.0L	2001-2004	0.68 +/-0.05	110
Scenic II	2005-2006	0.55 +/-0.05	100
Traffic	2004-2006	0.715 +/-0.05	120

SAAB

MODEL	YEAR	A/C (kg)	OIL (ml)
900	1989-92	1.00	150
	1994-98	0.70	120
9000	1989-91	1.09	150
	1992	2.42	240
	1993-98	0.95	140
9-3 440	2002-2006	0.68	110
9-5	1997-2006	0.875	130
Scenic 2.0L	2001-2004	0.68 +/-0.05	110
Scenic II	2005-2006	0.55 +/-0.05	100
Traffic	2004-2006	0.715 +/-0.05	120

SMART

MODEL	YEAR	A/C (kg)	OIL (ml)
Fourtwo	2003-2006	0.46	90
Roadster	2003-2006	0.65	110

SSANGYONG

MODEL	YEAR	A/C (kg)	OIL (ml)
Chairman W100	2005 - 2006	0.700+/-0.050	120
Korando	1998	0.700+/-0.050	120
Musso	1996-1998	0.700+/-0.050	120
Rexton	Double blower	1.05	150

SUBARU

MODEL	YEAR	A/C (kg)	OIL (ml)
DL, GL & GL-10	1989	0.80	130
Forester	1997-2001	0.65	110
	2002-2005	0.600+/-0.050	110
Impreza	1993	0.75	120
	1994-96	0.65	110
	1997-98	0.60	110
	2000-2006	0.50	100
Impreza/Sportswagon	1994-1996	0.65	110
Impreza/Sportswagon	1997-2000	0.60	110
Legacy	1990-93	0.90	140
	1994-98	0.75	120
Liberty 2nd Gen	1994-1999	0.65	110
Liberty 3rd Gen	1998-2003	0.45	90
Liberty 4th Gen	2003-2006	0.40	80
Outback 2nd Gen	1994-1999	0.65	110
Outback 3rd Gen	1998-2003	0.45	90
Outback 4th Gen	2003-2006	0.40	80
Royale	1990-93	0.80	130
SVX	1992 - 97	0.65	110
XT	1989-90	0.80	130
XV	2003-2012	0.45	90

SUZUKI

MODEL	YEAR	A/C (kg)	OIL (ml)
Alto	1993-98	0.550+/-0.050	100
APV		0.40	80
Baleno 1.6 & 1.8 Grand Vitara	1996-2001	0.60	110
ESTEEM	1996	0.59	110
Grand Vitara	1998-2005	0.440+/-0.050	90
Ignis	2000-2005	0.360+/-0.030	80
Jimny	0998-2006	0.550+/-0.050	100
Liana	2001-2006	0.500+/-0.030	100
Sidekick	1989-98	0.60	110
Sierra	1993-1998	0.65	110
Swift	1989-96	0.50	100
Swift 1.4	-	0.43	80
Swift 1.5/1.6	-	0.37	80
Swift/Cino	1993-1999	0.50	100
SX4		0.43	80
Vitara 1.6 & 2.0 V6	1993-98	0.57	100
Vitara ND		0.50	100
Wagon R+	1997-98	0.355	80
X90	1996-98	0.57	110
XL7	2001-2006	0.50	100

TOYOTA

MODEL	YEAR	A/C (kg)	OIL (ml)
4 Runner	1993-1996	0.65 +/-0.05	110
ALPHARD	2011	0.75 +/-0.05	120
ALTIS 03	ZZE- 122 (AUTO A/C)	0.50 +/-0.05	100
	ZZE- 122 (MANU-AL A/C)	0.53 +/-0.05	100
ALTIS 08-12	ZZE- 141-142	0.41 +/-0.05	90
ALTIS 15	ZZE- 143	0.41 +/-0.05	90
Avalon	200-2005	0.80 +/-0.05	130

TOYOTA

MODEL	YEAR	A/C (kg)	OIL (ml)
Avanza	U-IMV (SINGLE UNIT)	0.325 +/-0.03	80
	U-IMV (DUAL UNIT)	0.425 +/-0.03	90
Avensis	2001-Aug 03	0.46 +/-0.03	90
	Dec 03 - 2006	0.50 +/-0.03	100
CAMRY 03	ACV 30	0.52 +/-0.05	100
CAMRY 08	ACV 40	0.43 +/-0.05	100
CAMRY 12	ACV 50	0.43 +/-0.05	100
CAMRY NA (AUTO)	SXV10R	0.85 +/-0.05	130
	SXV20R(5S,FE)	0.80 +/-0.05	130
	MXV20R(1MZ,FE)	0.80 +/-0.05	130
Celica ZTZ231	1994-1999	0.65 +/-0.05	110
COROLLA ND	EE100/EE111	0.65 +/-0.05	110
	AE101/AE111	0.65 +/-0.05	110
DYNA ND	LY100	0.65 +/-0.05	110
Echo	1999-2005	0.43 +/-0.03	90
ESTIMA	2011	0.75 +/-0.05	120
FJ Cruise		0.60 +/-0.05	110
FORTUNER	IMV - SINGLE COOLER	0.45 +/-0.03	90
	IMV - DUAL COOLER	0.70 +/-0.03	120
HARRIER	2006	0.65 +/-0.05	110
	2011	0.45 +/-0.05	100
HIACE (286W)	Single	0.55 +/-0.03	100
HILUX	KUN26R	0.55 +/-0.05	100
HILUX ND	LN106	0.55 +/-0.03	100
HILUX VIGO	KUN25R	0.45 +/- 0.03	90
INNOVA	IMV - SINGLE COOLER	0.43 +/-0.03	90
	IMV - DUAL COOLER	0.70 +/-0.03	120
KDH200R Eng. 2KD- FE	Dual	0.70 +/-0.03	120
Kluger MCU20R	2003-2006	0.65 +/-0.05	110
LAND CRUISER ND	RJ77,M79	0.75 +/-0.05	120
	HZJ80	0.90 +/-0.05	140

TOYOTA

MODEL	YEAR	A/C (kg)	OIL (ml)
Landcruiser 100 series:	Single Blower & Ice box	0.775 +/-0.05	130
	Oct02- 2005	0.41 +/-0.03	90
	Single A/C-1998-2006	0.675 +/-0.05	110
	with rear A/C 1998-2006	1.05 +/-0.05	150
Landcruiser 200 series:	Double blower & Ice box	0.92 +/-0.05	150
Lexcen	"With rear A/C & Ice box 1998-2006"	1.15 +/-0.05	160
LITEACE ND (AUTO)	YM31/KM36	1.10 +/-0.05	150
MR2 30 series	1993-1999	0.65 +/-0.05	110
MR2 SW20	1993-1997	0.80 +/-0.03	130
Paseo EL44	2000-2006	0.50 +/-0.03	100
Prado	1993-1999	0.60 +/-0.05	110
Prado 120 Series:	1996-2002	0.71 +/-0.05	120
	Single A/C 2006-2006	0.65 +/-0.05	110
	With rear A/C 2006-2006	0.80 +/-0.05	130
PRADO ND (DUAL)	RZJ95 / HZJ80	1.10 +/-0.05	160
PRADO ND (SINGLE)	M95	0.75 +/-0.05	120
PRIUS	ZVW30	0.50 +/-0.05	100
	NHP10	0.42 +/-0.05	90
Pruis NHW11R	"With rear A/C&Ice box 2003-2006"	0.90 +/-0.05	140
Pruis NHW202	2001-2003	0.50 +/-0.05	100
RAV4 10 Series	2003-2006	0.45 +/-0.03	90
RAV4 20 Series	1994-2000	0.70 +/-0.05	120
Sienta	2015	0.60 +/-0.05	110
Spacia SR40	1993-0997	0.65 +/-0.05	110
Spacia YR22RG	2000-2006	0.51 +/-0.03	100
Starlet EP91R	1998-2001	0.75 +/-0.05	120
Tarago AC22R:	1996-1999	0.60 +/-0.05	110
	Single A/C 1993-2000	0.90 +/-0.05	140

TOYOTA

MODEL	YEAR	A/C (kg)	OIL (ml)
Tarago AC30R:	With rear A/C 1993-2000	1.15 +/-0.05	160
	Single A/C 2000- 2006	0.69 +/-0.04	110
	With rear 2000- 2006	0.88 +/-0.03	130
UNSER ND (DUAL)	7K - M/T	0.95 +/-0.05	140
	7K - A/T	0.90 +/-0.05	140
	2L- M/T	0.90 +/-0.05	140
UNSER ND (SINGLE)	7K	0.60 +/-0.05	110
VELLFIRE	2011	0.75 +/-0.05	120
VIOS 2003	NCP42	0.45 +/-0.03	80
VIOS 2008	NCP93	0.40 +/-0.05	80
VIOS 2013	NCP150/151	0.37 +/-0.05	80
WISH	2011	0.43 +/-0.05	100
YARIS	NCP 91R	0.36 +/-0.03	80

VOLKSWAGEN

MODEL	YEAR	A/C (kg)	OIL (ml)
Bora	1999-2006	0.775+/-0.025	120
CABRIOLET	1989-93	0.90	140
CABRO	1994-98	0.80	130
CORRADO	1990-93	0.80	130
	1993-94	1.0	150
EUROVAN	1993 - 98	2.27	220
FOX	1989-93	1.05	150
Golf	1994-1998	0.800+/-0.050	130
	2012	0.525	100
Golf 4th Gen	1998-2004	0.750+/-0.050	120
Golf Cabriolet	1999-2003	0.800+/-0.050	130
Golf 5th Gen	2004-2006	0.525+/-0.025	100
GOLF,GFI & JETTA	1989-92	1.05	150
	1993-89	0.80	130
	2001	0.53	100

VOLKSWAGEN

MODEL	YEAR	A/C (kg)	OIL (ml)
Jetta	1998-2004	0.750+/-0.050	120
Bettle	1998 - 2002	0.70	120
PASSAT	1990-94	1.15	160
	1995-97	0.90	140
	1998	0.65	110
Passat GP	2001-2005	0.600+/-0.025	110
Passat GP V8 sedan	2003-2005	0.510+/-0.025	100
Passat III	1995-1997	1.150+/-0.050	160
Passat IV	1997-2000	0.650+/-0.050	110
Polo	1996-2001	0.860+/-0.050	130
	2002-2006	0.550+/-0.025	100
	2012	0.525	100
SCIROCCO	2012	0.525	100
	1989-93	1.15	160
Tiguan	-	0.66	110
Touareg	2003-2006	0.725+/-0.025	120
Touareg with rear A/C	2003-2006	1.075+/-0.025	150
Transporter: Sanden compressor	1993 - 2004	0.950+/-0.050	140
	2004 - 2006	0.975+/-0.025	140
Transporter: Denso compressor	2004 - 2006	0.775+/-0.025	120
VANAGON	1989-91	0.40	80
Vento	1995-1997	0.800+/-0.050	130

VOLVO

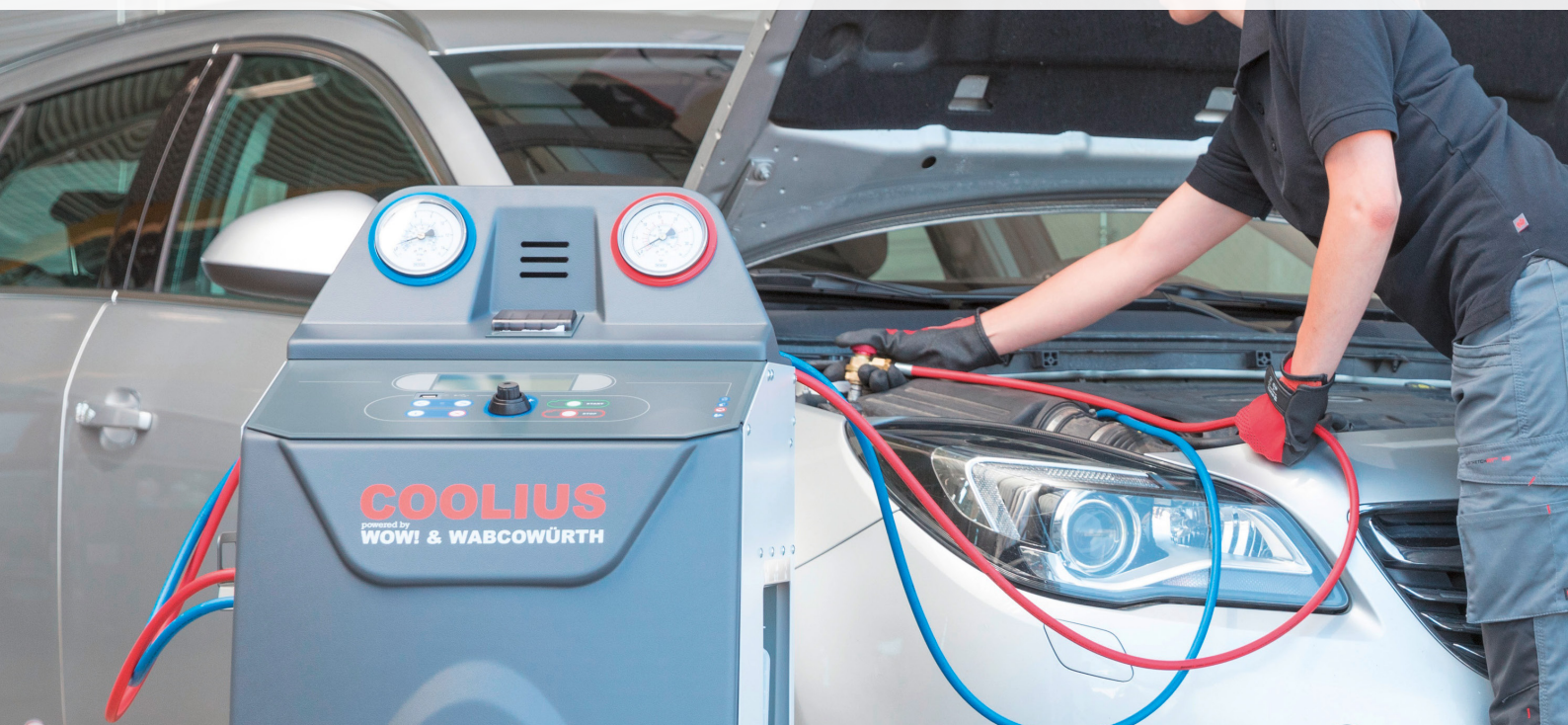
MODEL	YEAR	A/C (kg)	OIL (ml)
240	1989-90	1.25 +/-0.05	170
	1991-92	1.05 +/-0.05	150
	1993	0.75 +/-0.05	120
440	1993-96	0.65 +/-0.05	110
740	1989-90	1.15 +/-0.05	170
	1991	1.05 +/-0.05	150
	1992	1.15 +/-0.05	160
960	1992	1.10 +/-0.05	160
	1993-97	0.90 +/-0.05	140
760 & 780	1989-90	1.15 +/-0.05	160
	1991	1.25 +/-0.05	170
	1992	1.10 +/-0.05	160
C70,S70 & V70	1998	0.75 +/-0.05	120
S40	1997-2004	0.85 +/-0.05	130
S40 M SERIES	2004-2006	0.55 +/-0.05	100
S60	2000-2006	1.00 +/-0.05	150
S80	1998-2005	1.00 +/-0.05	150
S90 & V90	1998	0.80 +/-0.05	130
V40	1997-2004	0.85 +/-0.05	130
V50	2004-2006	0.55 +/-0.05	100
V70	1997-2000	0.80 +/-0.05	130
	2000-2006	1.00 +/-0.05	150
V90	1994-1998	0.90 +/-0.05	140
VOLVO 850 ND	-	0.75 +/-0.05	120
VOLVO 940 ND	-	0.80 +/-0.05	130
XC70	2003-2006	1.00 +/-0.05	150
XC90	2003-2006	1.00 +/-0.05	150
		1.30 +/-0.05	170



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