MAHLE

Refrigerant and oil filling quantities

Agricultural vehicles and machines
2021–22

BEHR®

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Symbols

	Vehicle type (agricultural)
	Year of manufacture
	Refrigerant type
	Refrigerant quantity (g)
	OE compressor oil type
	Compressor oil type from the BEHR sales brand (please refer to the following pages when selecting the oil)
	Oil filling quantity for the overall system (ml) (if “n/a” is entered, see notes)

Safety precautions and notes

The information in the following tables has been compiled using data from vehicle manufacturers and other sources, and it is applicable only to air conditioning systems in their original designs. Only specially trained professionals should carry out work on air conditioning systems, taking into account the relevant safety precautions and country-specific laws.

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Product features

PAO 68 oil and PAO 68 Plus UV oil

- Not hygroscopic: in contrast to other oils, these do not absorb any moisture from the ambient air
- Can be used as an alternative to a range of PAG oils (see the usage overview): stock one oil instead of three
- Successfully used in practice for more than 20 years
- Helps to increase the air conditioning system's performance
- No adverse effects on components in the air conditioning circuit (also applies to use in air conditioning service units/confirmed by manufacturers using the sealed glass tube method in accordance with the ASHRAE 97 standard)
- Available with (PAO 68 Plus UV oil) or without the addition of a contrast agent (PAO 68 oil)

Advantages/effect

PAO 68 oil

- Being nonhygroscopic, PAO oil is easy to use in workshops. The required amount of oil can also be taken from large containers (e.g., 5 liters).
- A low degree of refrigerant solubility in the oil means that the PAO oil is not diluted and retains its full viscosity in the air conditioning compressor.
- Oil film inside the components creates a better seal and decreases friction between the air conditioning compressor's moving parts.
- Reduced operating temperature and wear.
- Results in increased operational safety and reduces noise, running time, and energy consumption by the air conditioning compressor.

PAO 68 Plus UV oil

- Same positive characteristics as PAO 68 oil
- Additional admixture of a fluorescent contrast agent for UV leak detection
- Low vol% concentration of the contrast agent with the following advantages: preserves the oil's positive characteristics and avoids negative effects on system components or service equipment
- Suitable for use as the sole oil for filling the entire system, without any negative effects

Additional details

Is PAO 68 oil compatible with other oils?

- PAO 68 oil does not damage fluoroelastomer materials, such as hoses and seals.
- Since PAO 68 oil is compatible with many other lubricants and refrigerants, it can be used both when topping off and when changing the system's entire oil volume. Its molecular structure and density mean that, although PAO 68 oil can be mixed to a certain extent with other oils, it separates from them again when it settles and does not form a permanent bond.
- This guarantees that the necessary viscosity of the oils is maintained and there is no change in the overall viscosity.

The AA1 clear version of PAO 68 oil (without leak detecting agent) is also approved for use with R1234yf and in electric air conditioning compressors in hybrid and electric vehicles.

Oils in comparison

Type of oil	Application	Notes
PAG oils for refrigerant R134a	There are various PAG oils with different flow characteristics (viscosities) for use with refrigerant R134a. PAG oils are hygroscopic. This means that cans do not have a long shelf life once opened.	Standard PAG oils are not suitable for refrigerant R1234yf or for electrically driven air conditioning compressors.
PAG oil YF for refrigerants R1234yf and R134a	There are also various PAG oils with different flow characteristics (viscosities) for use with refrigerant R1234yf. What makes these PAG oils from the BEHR sales brand special is that they are not only suitable for use with the refrigerant R1234yf but can also be used with the refrigerant R134a. As PAG oils are hygroscopic, cans do not have a long shelf life once opened.	PAG oil YF is suitable for both R1234yf and R134a refrigerants.
PAG oil SP-A2 for refrigerants R1234yf and R134a	For use in electric air conditioning compressors, such as those manufactured by Sanden and Hanon Systems.	
PAO 68 oil for refrigerant R134a, and in some cases for refrigerant **R1234yf** and others	Can be used as an alternative to the various PAG oils that are offered for R134a (has the advantage of not being hygroscopic, i.e., in contrast to other oils, it does not absorb any moisture from the ambient air). The two different PAO 68 oils offered by MAHLE under the BEHR sales brand (AA1 and AA3) can be used in conjunction with numerous different refrigerants (see product overview).	**! PAO 68 AA1 clear version oil (without leak detecting agent) can also be used with the new refrigerant R1234yf as well as in electrically driven air conditioning compressors in hybrid and electric vehicles.**

PAO and other oils

Product	Application	Air conditioning compressor type	Refrigerant	Viscosity class	Con-tents	MAHLE reference no.	Former Behr Hella Service reference no.
PAG oil	Vehicle air conditioning systems*	All types**	R134a	PAG I (ISO 46)	240 ml	ACPL 1 000P	8FX 351 213-031
	Vehicle air conditioning systems*	All types**	R134a	PAG II (ISO 100)	240 ml	ACPL 3 000P	8FX 351 213-051
	Vehicle air conditioning systems*	All types**	R134a	PAG III (ISO 150)	240 ml	ACPL 2 000P	8FX 351 213-041
PAG YF oil	Vehicle air conditioning systems*	All types**	R1234yf, R134a	PAG I (ISO 46)	240 ml	ACPL 7 000P	8FX 351 213-121
	Vehicle air conditioning systems*	All types**	R1234yf, R134a	PAG II (ISO 100)	240 ml	ACPL 8 000P	8FX 351 213-131
PAG SP-A2 oil	Air conditioning systems in hybrid and electric vehicles	Electrically driven com-pressors, e.g., those manufactured by Sanden and Hanon Systems	R1234yf, R134a	PAG I (ISO 46)	250 ml	ACPL 9 000P	8FX 351 213-141

* Passenger cars, trucks, and agricultural and construction machinery
** Except for electric air conditioning compressors

The appropriate air conditioning compressor oil is determined on the basis of the air conditioning compressor type and the refrigerant used. The wrong choice can lead to damage. Vehicle- or manufacturer-specific instructions must be followed carefully.

Product	Application	Air conditioning compressor type	Refrigerant	Viscosity class	Con-tents	MAHLE reference no.	Former Behr Hella Service reference no.
PAO 68 oil	Vehicle air conditioning systems*	All types (except vane compressors)	R1234yf, R134a, R413a, R22, R513a	AA1 (ISO 68) AA1 (ISO 68) AA1 (ISO 68)	500 ml 1.0 L 5.0 L	ACPL 11 000P ACPL 10 000P ACPL 14 000P	8FX 351 214-031 8FX 351 214-021 8FX 351 214-101
	Air conditioning systems in hybrid and electric vehicles	Electric compressors	R1234yf, R134a, R513a				
	Refrigerated trucks (fresh produce delivery vehicles)	Reciprocating compressors**	R1234yf, R134a, R507a, R500, R513a				
	Refrigerated trucks (freezer vans)	Reciprocating compressors**	R507a, R502, R513a, R22				
	Vehicle air conditioning systems*	Vane compressors**	R134a, R413a, R513a	AA3 (ISO 100)	1.0 L	ACPL 13 000P	8FX 351 214-081

* Passenger cars, trucks, and agricultural and construction machinery
** Except for electric air conditioning compressors

The appropriate air conditioning compressor oil is determined on the basis of the air conditioning compressor type and the refrigerant used. The wrong choice can lead to damage. Vehicle- or manufacturer-specific instructions must be followed carefully.

Product	Application	Air conditioning compressor type	Refrigerant	Viscosity class	Con-tents	MAHLE reference no.	Former Behr Hella Service reference no.
PAO 68 Plus UV oil	Vehicle air conditioning systems*	All types** (except vane compressors)	R134a, R413a, R22	AA1 (ISO 68) AA1 (ISO 68) AA1 (ISO 68)	500 ml 1.0 L 5.0 L	ACPL 15 000P ACPL 16 000P ACPL 17 000P	8FX 351 214-201 8FX 351 214-211 8FX 351 214-221
	Refrigerated trucks (fresh produce delivery vehicles)	Reciprocating compressors**	R134a, R507a, R500				
	Refrigerated trucks (freezer vans)	Reciprocating compressors**	R507a, R502, R22				
	Vehicle air conditioning systems*	Vane compressors**	R134a, R413a	AA3 (ISO 100)	1.0 L	ACPL 18 000P	8FX 351 214-281

* Passenger cars, trucks, and agricultural and construction machinery
** Except for electric air conditioning compressors

The appropriate air conditioning compressor oil is determined on the basis of the air conditioning compressor type and the refrigerant used. The wrong choice can lead to damage. Vehicle- or manufacturer-specific instructions must be followed carefully.

		g	OE	BEHR	ml
Branson					
20/25 Series	R134a	900	Ucon 488	PAO 68 or PAG ISO 150	260
F36Cn/F47Cn/F47CHn	R134a	700	ISU PAG 105	PAO 68 or PAG ISO 46	100
K62/K68/K72/K78	R134a	1100	Ucon 488	PAO 68 or PAG ISO 150	180
Case IH					
895/995	R134a	1580	PAG 100	PAO 68 or PAG ISO 100	270
1394	R134a	1450	PAG 100	PAO 68 or PAG ISO 100	n/a
1494/1594	R134a	1580	PAG 100	PAO 68 or PAG ISO 100	n/a
3220/3230	R134a	1800	PAG 100	PAO 68 or PAG ISO 100	250
4210/4220/4230	R134a	1800	PAG 100	PAO 68 or PAG ISO 100	250
5120/5130/5140/5150	R134a	1750	PAG 100	PAO 68 or PAG ISO 100	270
5220/5230/5240/5250	R134a	1750	PAG 100	PAO 68 or PAG ISO 100	270
7110/7120/7130/7140/7150	R134a	1700	PAG 100	PAO 68 or PAG ISO 100	270
7210/7220/7230/7240/7250	R134a	1800	PAG 100	PAO 68 or PAG ISO 100	270
8910/8920/8930/8940/8950	R134a	1630	PAG 100	PAO 68 or PAG ISO 100	230

		g	OE	BEHR	ml
Case IH					
9210/9230/9240/9250/9260/9270/9280	R134a	1630	PAG 100	PAO 68 or PAG ISO 100	280
9310/9330/9350/9370/9380/9390	R134a	1630	PAG 100	PAO 68 or PAG ISO 100	280
CS 78–94 model: Konvekta, straight hood	R134a	1000	PAG 100	PAO 68 or PAG ISO 100	210
CS 78–94 model: MCC, straight hood	R134a	1200	PAG 100	PAO 68 or PAG ISO 100	210
CS 78–94 model: MCC, installed on the roof	R134a	1100	PAG 100	PAO 68 or PAG ISO 100	210
CS 78–94 model: MCC, integrated in the roof	R134a	1400	PAG 100	PAO 68 or PAG ISO 100	220
CS 110–150	R134a	1500	PAG 100	PAO 68 or PAG ISO 100	220
CS Pro/MT	R134a	1000	PAG 100	PAO 68	n/a
CVX T1 + T2	R134a	1500	PAG 100	PAO 68 or PAG ISO 100	310
CVX T3	R134a	1400	PAG 100	PAO 68 or PAG ISO 100	300
CX 50/60/70/80/90/100	R134a	1930	PAG 100	PAO 68 or PAG ISO 100	250
Farmall U	R134a	650	PAG 100	PAO 68 or PAG ISO 100	60
Farmall U Pro	R134a	650	PAG 100	PAO 68 or PAG ISO 100	190
JX 60–95	R134a	1400	PAG 100	PAO 68 or PAG ISO 100	190
JX-C	R134a	800	PAG 100	PAO 68 or PAG ISO 100	185

		g	OE	BEHR	ml
Case IH					
JX-N/JX-V	R134a	750	PAG 100	PAO 68 or PAG ISO 100	185
JXU	R134a	1600	PAG 100	PAO 68 or PAG ISO 100	190
Kompakt 300/400	R134a	800	PAG 100	PAO 68 or PAG ISO 100	185
Kompakt 4000	R134a	1400	PAG	PAO 68	n/a
Magnum 71xx chassis frame no. 50000–64977	R134a	1800	PAG 100	PAO 68 or PAG ISO 100	250
Magnum 72xx chassis frame no. 64978–	R134a	2040	PAG 100	PAO 68 or PAG ISO 100	250
MX 80C/90C/100C	R134a	1930	PAG 100	PAO 68 or PAG ISO 100	250
MX 100/110/120/135/150/170	R134a	1930	PAG 100	PAO 68 or PAG ISO 100	250
MX 180/200/220	R134a	2100	PAG 100	PAO 68 or PAG ISO 100	290
MXM	R134a	1100	PAG 100	PAO 68 or PAG ISO 100	210
MX Magnum 215–335	R134a	2100	PAG 100	PAO 68 or PAG ISO 100	290
MXU/Pro/Multicontroller/Maxxum/X-Line	R134a				
Engine: 4-cylinder + 2-valve	R134a	1100	PAG 100	PAO 68 or PAG ISO 100	210
Engine: 6-cylinder + 2-valve	R134a	850	PAG 100	PAO 68 or PAG ISO 100	210
Engine: 4-valve	R134a	850	PAG 100	PAO 68 or PAG ISO 100	210

		g	OE	BEHR	ml
Case IH					
Optum	R134a	1300	PAG 100	PAO 68 or PAG ISO 100	200
Puma 115–155	R134a	1050	PAG 100	PAO 68 or PAG ISO 100	210
Puma 115–210	R134a	1050	PAG 100	PAO 68 or PAG ISO 100	210
Puma CVX (T4A) drier upstream of condenser	R134a	1100	PAG 100	PAO 68 or PAG ISO 100	210
Puma CVX (T4A) drier in condenser	R134a	1300	PAG 100	PAO 68 or PAG ISO 100	210
Puma (T4B)	R134a	1300	PAG 100	PAO 68 or PAG ISO 100	200
Quantum N + V	R134a	1200	PAG 100	PAO 68 or PAG ISO 100	180
Quantum C	R134a	800	PAG 100	PAO 68 or PAG ISO 100	180
Steiger	R134a	1900	PAG 100	PAO 68	n/a
Challenger					
1603/1603T/1664/1664T/1703/1803	R134a	1700	PAG	PAG ISO 100 or PAO 68	200
1804/1844/1903/2204/2505/2800	R134a	1700	PAG	PAG ISO 100 or PAO 68	200
3104/6103	R134a	1800	PAG	PAG ISO 100 or PAO 68	200
3244/6203	R134a	1800	PAG	PAG ISO 100 or PAO 68	300

		g	OE	BEHR	ml
Challenger					
6303/7300	R134a	1300	PAG	PAG ISO 100 or PAO 68	200
7300B/8300B	R134a	1150	PAG	PAG ISO 100 or PAO 68	300
8103/8104/8144	R134a	1800	PAG	PAG ISO 100 or PAO 68	200
8204/8244/8203	R134a	1800	PAG	PAG ISO 100 or PAO 68	300
8300/8303	R134a	1300	PAG	PAG ISO 100 or PAO 68	200
8300B	R134a	1150	PAG	PAG ISO 100 or PAO 68	300
8400	R134a	1350	PAG	PAG ISO 100 or PAO 68	300
8400B	R134a	950	PAG	PAG ISO 100 or PAO 68	300
9103/9105/9300	R134a	1800	PAG	PAG ISO 100 or PAO 68	200
9203/9205	R134a	1800	PAG	PAG ISO 100 or PAO 68	300
9300B model year 2015	R134a	1350	PAG	PAG ISO 100 or PAO 68	300
9300B model year 2016	R134a	950	PAG	PAG ISO 100 or PAO 68	300
Claas					
Ares 500/600 with short roof overhang at rear	R134a	950	PAG 244	PAO 68 or PAG ISO 46	160
With long roof overhang at rear	R134a	1450	PAG 244	PAO 68 or PAG ISO 46	230

		g	OE	BEHR	ml
Claas					
Ares 506/606	R134a	1450	PAG 244	PAO 68 or PAG ISO 46	230
Ares 507/607	R134a	1250	PAG 244	PAO 68 or PAG ISO 46	230
Ares 700/800	R134a	1200	PAG 244	PAO 68 or PAG ISO 46	160
Ares/Atles (Tier 2) with long roof overhang	R134a	1650	PAG 244	PAO 68 or PAG ISO 46	270
Axion/Arion	R134a	1650	PAG 244	PAO 68 or PAG ISO 46	260
Celtis	R134a	1750	PAG 244	PAO 68 or PAG ISO 46	230
Ceres	R134a	900	PAG 244	PAO 68 or PAG ISO 46	160
Cergos	R134a	1650	PAG 244	PAO 68 or PAG ISO 46	270
Challenger E Series	R134a	1900	PAG	PAO 68	n/a
Challenger C Series	R134a	2300	PAG	PAO 68	n/a
Cougar 1400	R134a	1800	PAG	PAO 68	220
Dionis/Fructus/Pales	R134a	700	PAG 244	PAO 68 or PAG ISO 46	135
Nectis VE/VL/F	R134a	800	PAG 244	PAO 68 or PAG ISO 46	135
Ranger 920–975/plus	R134a	960	PAG	PAO 68	n/a
Scorpion 6030–9040	R134a	1300	PAG	PAO 68	n/a

		g	OE	BEHR	ml
Claas					
Targo/Targo + K Series	R134a	1100	PAG	PAO 68	n/a
T Series/Temis	R134a	1450	PAG 244	PAO 68 or PAG ISO 46	270
Xerion 0330	R134a	1900	PAG 244	PAO 68 or PAG ISO 46	250
Xerion up to chassis frame no. 78100109 cabin over engine	R134a	1500	PAG 244	PAO 68 or PAG ISO 46	300
With rotating cabin	R134a	1700	PAG 244	PAO 68 or PAG ISO 46	300
Xerion from chassis frame no. 78100110 cabin over engine	R134a	1700	PAG 244	PAO 68 or PAG ISO 46	300
With rotating cabin	R134a	1900	PAG 244	PAO 68 or PAG ISO 46	300
Deutz-Fahr					
Agrofarm 85–100 with high-visibility roof	R134a	1400	PAG 46	PAO 68 or PAG ISO 46	210
Agrofarm 410–430 with standard roof	R134a	1100	PAG 100	PAO 68 or PAG ISO 100	200
Agrofarm 420–430 with high-visibility roof	R134a	1000	PAG 100	PAO 68 or PAG ISO 100	200
Agrofarm 420–430 TTV	R134a	1100	PAG 46	PAO 68 or PAG ISO 46	210
Agrokid 210–230	R134a	1100	PAG 100	PAO 68 or PAG ISO 100	n/a
Agroplus F-V-S	R134a	1100	PAG 100	PAO 68 or PAG ISO 100	200

		g	OE	BEHR	ml
Deutz-Fahr					
Agroplus 310–420 with high-visibility roof	R134a	800	PAG 46	PAO 68 or PAG ISO 46	200
Agroplus 310–420 with standard roof	R134a	1400	PAG 46	PAO 68 or PAG ISO 46	200
Agrotron 4.70–6.15 (MK 1)	R134a	1650	PAG 46	PAO 68 or PAG ISO 46	210
Agrotron 6.20–6.45 (MK 1)	R134a	1550	PAG 46	PAO 68 or PAG ISO 46	210
Agrotron 80–115 (MK 2)	R134a	1650	PAG 46	PAO 68 or PAG ISO 46	210
Agrotron 120–150 (MK 2)	R134a	1550	PAG 46	PAO 68 or PAG ISO 46	210
Agrotron 160–200 (MK 2)	R134a	1950	PAG 46	PAO 68 or PAG ISO 46	210
Agrotron 230–260 (MK 2) Sanden compressor	R134a	2150	PAG 46	PAO 68 or PAG ISO 46	210
Agrotron 230–260 (Mk 2) Delphi compressor	R134a	1900	PAG 46	PAO 68 or PAG ISO 46	210
Agrotron 80–150 (MK 3)	R134a	1425	PAG 46	PAO 68 or PAG ISO 46	210
Agrotron 160–200 (MK 3)	R134a	1950	PAG 46	PAO 68 or PAG ISO 46	210
Agrotron 230–260 (Mk 3)	R134a	1900	PAG 46	PAO 68 or PAG ISO 46	210
Agrotron 108/118/128	R134a	1950	PAG 46	PAO 68 or PAG ISO 46	210
Agrotron 130–180.7	R134a	1950	PAG 46	PAO 68 or PAG ISO 46	210
Agrotron 210–265	R134a	2150	PAG 46	PAO 68 or PAG ISO 46	210

		g	OE	BEHR	ml
Deutz-Fahr					
Agrotron L720	R134a	1600	PAG 46	PAO 68 or PAG ISO 46	210
Agrotron K Series	R134a	1650	PAG 46	PAO 68 or PAG ISO 46	210
Agroton M Series	R134a	1750	PAG 46	PAO 68 or PAG ISO 46	210
Agrotron X Series	R134a	1750	PAG 46	PAO 68 or PAG ISO 46	210
Agroton TTV 1130–1165	R134a	1750	PAG 46	PAO 68 or PAG ISO 46	210
Agrotron TTV 410/420/430	R134a	1650	PAG 46	PAO 68 or PAG ISO 46	n/a
Agrotron TTV 610/620/630	R134a	1750	PAG 46	PAO 68 or PAG ISO 46	210
Agrotron Series 5 (basic)	R134a	1450	PAG 46	PAO 68 or PAG ISO 46	210
Agrotron Series 5C + 5G	R134a	1350	PAG 46	PAO 68 or PAG ISO 46	210
Agrotron Series 5 D with normal roof	R134a	1400	PAG 46	PAO 68 or PAG ISO 46	210
Agrotron Series 5 D with high-visibility roof	R134a	800	PAG 46	PAO 68 or PAG ISO 46	210
Agrotron Series 5 TTV	R134a	1450	PAG 46	PAO 68 or PAG ISO 46	210
Agrotron Series 6.4, 6140 Tier 4i (4-cylinder)	R134a	950	PAG 46	PAO 68 or PAG ISO 46	210
Agrotron Series 6, 6150/6160 (6-cylinder)	R134a	1100	PAG 46	PAO 68 or PAG ISO 46	210
Agrotron Series 6 Tier 4 final	R134a	1250	PAG 46	PAO 68 or PAG ISO 46	230

		g	OE	BEHR	ml
Deutz-Fahr					
Agrotron Series 6, 6120–6140 TTV Tier 4 final	R134a	1350	PAG 46	PAO 68 or PAG ISO 46	210
Agrotron Series 7 Tier 4i	R134a	1650	PAG 46	PAO 68 or PAG ISO 46	210
Agrotron Series 7 Tier 4 final	R134a	1250	PAG 46	PAO 68 or PAG ISO 46	230
Agrotron Series 9 Tier 4 final	R134a	1300	PAG 46	PAO 68 or PAG ISO 46	265
Farmtrac					
6075E	R134a	750 g	PAG	PAO 68	n/a
Fendt					
Farmer 200 V/F/P/S 205/206/207/208/210/212/213/214	R134a	1150	PAG ND8	PAO 68 or PAG ISO 46	300
Farmer 200 V/F/P/S 221/222/246/247/248/294/295/296/297	R134a	1150	PAG ND8	PAO 68 or PAG ISO 46	300
Farmer 200 V/F/P/S 326/327/328/329	R134a	1150	PAG ND8	PAO 68 or PAG ISO 46	300
Farmer 200 S 326/327/328/329 with Neumaier cabin	R134a	1200	PAG ND8	PAO 68 or PAG ISO 46	300
Farmer 300 152/158/162/168/170/175/178/186/192/198/199	R134a	1350	PAG ND8	PAO 68 or PAG ISO 46	300
Farmer 300 307/308/309/310/311/312	R134a	1400	PAG ND8	PAO 68 or PAG ISO 46	300
Farmer 300 C/Ci 117/118/119	R134a	1200	PAG ND8	PAO 68 or PAG ISO 46	300

		g	OE	BEHR	ml
Fendt					
Farmer 400 409/410/411/412	R134a	1250	PAG ND8	PAO 68 or PAG ISO 46	300
Favorit 500 509/510/511/512/514/515	R134a	1400	PAG ND8	PAO 68 or PAG ISO 46	300
Favorit 600 280/281/282/283/284/285/291/292 Delco compressor	R134a	1800	PAG ND8	PAO 68 or PAG ISO 46	*
Favorit 600 382/383/384/385 Delco compressor	R134a	1550	PAG ND8	PAO 68 or PAG ISO 46	*
Favorit 600 382/383/384/385 Denso compressor	R134a	1550	PAG ND8	PAO 68 or PAG ISO 46	300
Favorit 700 711/712/714/716	R134a	1250	PAG ND8	PAO 68 or PAG ISO 46	300
Favorit 800 816/818/822/824	R134a	1200	PAG ND8	PAO 68 or PAG ISO 46	300
GT 380 148/149	R134a	1200	PAG ND8	PAO 68 or PAG ISO 46	300
GT 390/395	R134a	1550	PAG ND8	PAO 68 or PAG ISO 46	300
Xylon 520/522/524	R134a	1200	PAG ND8	PAO 68 or PAG ISO 46	300
200 Vario V/F/P 260/261/262/263/264/272/273/274	R134a	1200	PAG ND8	PAO 68 or PAG ISO 46	300
200 Vario 330/331/332/333/334	R134a	1300	PAG ND8	PAO 68 or PAG ISO 46	300
300 Vario 336/337/338/339	R134a	1250	PAG ND8	PAO 68 or PAG ISO 46	300
With open-view roof	R134a	1300	PAG ND8	PAO 68 or PAG ISO 46	300
300 Vario SCR (St3b) 322/323/324/325/340	R134a	1200	PAG ND8	PAO 68 or PAG ISO 46	250

* Up to the overflow of the oil level check plug

		g	OE	BEHR	ml
Fendt					
400 Vario COM3 400/401/402/403/404	R134a	1250	PAG ND8	PAO 68 or PAG ISO 46	300
With open-view roof	R134a	1300	PAG ND8	PAO 68 or PAG ISO 46	300
700 Vario COM3 724/725/726/727	R134a	1250	PAG ND8	PAO 68 or PAG ISO 46	300
With open-view roof	R134a	1300	PAG ND8	PAO 68 or PAG ISO 46	300
700 Vario SCR (St3b) 732/733/734/735/736/737	R134a	1100	PAG ND8	PAO 68 or PAG ISO 46	250
800 Vario 715/717/718	R134a	1250	PAG ND8	PAO 68 or PAG ISO 46	300
800 Vario COM 729/731	R134a	1250	PAG ND8	PAO 68 or PAG ISO 46	300
With open-view roof	R134a	1300	PAG ND8	PAO 68 or PAG ISO 46	300
800 Vario SCR (St3b) 832/833/834/835/836	R134a	1100	PAG ND8	PAO 68 or PAG ISO 46	250
900 Vario 916/920/924/926/930	R134a	1200	PAG ND8	PAO 68 or PAG ISO 46	300
900 Vario COM 919/922/925/928/931/934	R134a	1900	PAG ND8	PAO 68 or PAG ISO 46	300
900 Vario SCR (St3b) 941/942/943/944/945/946	R134a	1100	PAG ND8	PAO 68 or PAG ISO 46	250
Fiat					
86 Series	R134a	900	PAG 46	PAO 68 or PAG ISO 46	135

		g	OE	BEHR	ml
Fiat					
90 + 94 Series	R134a	1500	PAG 46	PAO 68 or PAG ISO 46	175
L Series	R134a	1600	PAG 46	PAO 68 or PAG ISO 46	185
TL Series	R134a	1600	PAG 46	PAO 68 or PAG ISO 46	185
Winner	R134a	1700	PAG 46	PAO 68 or PAG ISO 46	135
Ford					
5640–8340	R134a	1500	PAG 46	PAO 68 or PAG ISO 46	320
8160–8560	R134a	1800	PAG 46	PAO 68 or PAG ISO 46	200
8630–8830	R134a	1900	PAG 46	PAO 68 or PAG ISO 46	240
M100–M160	R134a	1900	PAG 46	PAO 68 or PAG ISO 46	200
TS 80–100 + TS 115	R134a	1500	PAG 46	PAO 68 or PAG ISO 46	200
Hürlimann					
XB Elite	R134a	1600	PAG	PAO 68	n/a
XB Max	R134a	1400	PAG	PAO 68	n/a
XM (year of manufacture 2009–2014)	R134a	1600	PAG	PAO 68	n/a

		g	OE	BEHR	ml
Hürlimann					
XN 705–709	R134a	950	PAG	PAO 68	n/a
XS 70–100	R134a	950	PAG	PAO 68	n/a
XT 85–130	R134a	1800	PAG	PAO 68	n/a
John Deere					
5050R–5100R	R134a	1600	PAG	PAO 68 or PAG ISO 46	250
5080M–5100M	R134a	1600	PAG	PAO 68 or PAG ISO 46	250
5080GF/5090G	R134a	1200	PAG	PAO 68 or PAG ISO 46	250
5620–5820	R134a	1600	PAG	PAO 68 or PAG ISO 46	280
6000–6900	R134a	1300	PAG	PAO 68 or PAG ISO 46	190
6000SE–6900SE	R134a	1450	PAG	PAO 68 or PAG ISO 46	250
6010–6910	R134a	1300	PAG	PAO 68 or PAG ISO 46	190
6010SE–6610SE	R134a	1450	PAG	PAO 68 or PAG ISO 46	250
6020–6920	R134a	1450	PAG	PAO 68 or PAG ISO 46	220
6800–6900	R134a	1300	PAG	PAO 68 or PAG ISO 46	n/a

		g	OE	BEHR	ml
John Deere					
6810–6910 S	R134a	1300	PAG	PAO 68 or PAG ISO 46	n/a
6820–6920 S	R134a	1450	PAG	PAO 68 or PAG ISO 46	n/a
7600–7800	R134a	1700	PAG	PAO 68 or PAG ISO 46	255
7610–7810	R134a	1800	PAG	PAO 68 or PAG ISO 46	255
7200R–7800R	R134a	1850	PAG	PAO 68 or PAG ISO 46	255
7720–7920	R134a	1800	PAG	PAO 68 or PAG ISO 46	255
8110–8410	R134a	2150	PAG	PAO 68 or PAG ISO 46	255
8120–8520	R134a	2450	PAG	PAO 68 or PAG ISO 46	255
8130–8530	R134a	2050	PAG	PAO 68 or PAG ISO 46	255
8225R–8370R	R134a	2050	PAG	PAO 68 or PAG ISO 46	255
Kubota					
M110 + M120 with compressor Denso 10PA	R134a	1000	PAG 46	PAO 68 or PAG ISO 46	150
With compressor Denso CS	R134a	1000	PAG 46	PAO 68 or PAG ISO 46	90
M4900 + M5700 with compressor Denso 10PA	R134a	1020	PAG 46	PAO 68 or PAG ISO 46	130
with compressor Denso CS	R134a	1020	PAG 46	PAO 68 or PAG ISO 46	90

		g	OE	BEHR	ml
Kubota					
M6800 + M8200 with compressor Denso 10PA	R134a	1020	PAG 46	PAO 68 or PAG ISO 46	130
with compressor Denso CS	R134a	1020	PAG 46	PAO 68 or PAG ISO 46	90
M9000 with compressor Denso 10PA	R134a	1020	PAG 46	PAO 68 or PAG ISO 46	130
with compressor Denso CS	R134a	1020	PAG 46	PAO 68 or PAG ISO 46	90
Landini					
80 Series	R134a	1350	PAG	PAO 68	n/a
10000–14500	R134a	1600	PAG	PAO 68	n/a
Blizzard	R134a	1300	PAG	PAO 68	n/a
Ghilbi	R134a	1300	PAG	PAO 68	n/a
Globus	R134a	850	PAG	PAO 68	n/a
Mythos	R134a	1600	PAG	PAO 68	n/a
Landpower	R134a	1750	PAG	PAO 68	n/a
Legend	R134a	1850	PAG	PAO 68	n/a
Rex (Frutteto)	R134a	900	PAG	PAO 68	n/a

		g	OE	BEHR	ml
Landini					
Vision	R134a	1300	PAG	PAO 68	n/a
Lindner					
Geotrac 63–73/83–93	R134a	1100	PAG	PAO 68	n/a
Geotrac 104/114/124	R134a	1500	PAG 46	PAO 68 or PAG ISO 46	n/a
Geotrac Series 4 Alpin 64–94/74ep–94ep/84epPRO	R134a	970	PAG 46	PAO 68 or PAG ISO 46	n/a
Geotrac 114ep–134ep	R134a	1050	PAG	PAO 68	n/a
Lintrac 90	R134a	1000	PAG 68	PAO 68	n/a
Lovol					
TB 504	R134a	850	PAG 56	PAO 68 or PAG ISO 46	130
Massey Ferguson					
MF 300	R134a	1400	PAG SP20	PAO 68 or PAG ISO 100	175
MF 303	R134a	1300	PAG SP20	PAO 68 or PAG ISO 100	100
MF 304	R134a	900	PAG 244	PAO 68 or PAG ISO 46	100

		g	OE	BEHR	ml
Massey Ferguson					
MF 307	R134a	1350	PAG SP20	PAO 68 or PAG ISO 100	100
MF 1500	R134a	825	PAG ND8	PAO 68 or PAG ISO 46	60
MF 1700	R134a	825	PAG ND8	PAO 68 or PAG ISO 46	60
MF 2200	R134a	850	PAG 244	PAO 68 or PAG ISO 46	110
MF 2400	R134a	850	PAG 244	PAO 68 or PAG ISO 46	110
MF 3000	R134a	1700	PAG SP20	PAO 68 or PAG ISO 100	190
MF 3300/3400	R134a	950	PAG SP20	PAO 68 or PAG ISO 100	200
MF 3600 (F)	R134a	1700	PAG SP20	PAO 68 or PAG ISO 100	190
MF 3600 (I) Carraro	R134a	800	PAG SP20	PAO 68 or PAG ISO 100	110
MF 4200	R134a	1400	PAG SP20	PAO 68 or PAG ISO 100	210
MF 4300	R134a	1550	PAG SP20	PAO 68 or PAG ISO 100	210
MF 4400	R134a	1200	PAG SP20	PAO 68 or PAG ISO 100	210
MF 4700	R134a	900	PAG SP20	PAO 68 or PAG ISO 100	190
MF 5400	R134a	1200	PAG SP20	PAO 68 or PAG ISO 100	190
MF 5420/5430/5440/5450	R134a	1000	PAG SP20	PAO 68 or PAG ISO 100	190

		g	OE	BEHR	ml
Massey Ferguson					
MF 5600	R134a	950	PAG SP20	PAO 68 or PAG ISO 100	190
MF 5700	R134a	900	PAG SP20	PAO 68 or PAG ISO 100	190
MF 5700SL	R134a	950	PAG SP20	PAO 68 or PAG ISO 100	190
MF 6100	R134a	1700	PAG SP20	PAO 68 or PAG ISO 100	190
MF 6200	R134a	1700	PAG SP20	PAO 68 or PAG ISO 100	190
MF 6400	R134a	1200	PAG SP20	PAO 68 or PAG ISO 100	190
MF 6600	R134a	950	PAG SP20	PAO 68 or PAG ISO 100	190
MF 6700	R134a	900	PAG SP20	PAO 68 or PAG ISO 100	190
MF 6700S	R134a	1200	PAG SP20	PAO 68 or PAG ISO 100	190
MF 7400	R134a	1200	PAG SP20	PAO 68 or PAG ISO 100	190
MF 7600	R134a	950	PAG SP20	PAO 68 or PAG ISO 100	190
MF 7700	R134a	1200	PAG SP20	PAO 68 or PAG ISO 100	190
MF 8100	R134a	1700	PAG SP20	PAO 68 or PAG ISO 100	190
MF 8200	R134a	1700	PAG SP20	PAO 68 or PAG ISO 100	190
MF 8400	R134a	1400	PAG SP20	PAO 68 or PAG ISO 100	190

		g	OE	BEHR	ml
Massey Ferguson					
MF 8600	R134a	1000	PAG SP20	PAO 68 or PAG ISO 100	190
8700 Series/after rebuild	R134a	1400/950	PAG SP20	PAO 68 or PAG ISO 100	220
MF 9240	R134a	1330	PAG SP20	PAO 68 or PAG ISO 100	190
McCormick					
CX Series	R134a	1450	PAG	PAO 68	n/a
F 100 manufactured up to 02/2006	R134a	1400	PAG	PAO 68	n/a
F 100 manufactured 02/2006–06/2010	R134a	900	PAG	PAO 68	n/a
F 100 manufactured from 06/2010	R134a	1000	PAG	PAO 68	n/a
F Series manufactured from 2015	R134a	900	PAG	PAO 68	n/a
GX Series	R134a	800	PAG	PAO 68	n/a
MC Series 95/115/120/135	R134a	1450	PAG	PAO 68	n/a
MC Series 95/105/115/120/135—Power6	R134a	1950	PAG	PAO 68	n/a
MTX Series	R134a	1700	PAG	PAO 68	n/a
ZTX Series	R134a	1700	PAG	PAO 68	n/a

		g	OE	BEHR	ml
New Holland					
40 5640–8340	R134a	1500	PAG	PAO 68 or PAG ISO 46	300
86 50–82/86	R134a	900	PAG	PAO 68 or PAG ISO 46	135
90 + 94 55–180/90 + 65–88/94	R134a	1500	PAG	PAO 68 or PAG ISO 46	175
G/70 G170–G240 + 8670–8970	R134a	2270	PAG	PAO 68 or PAG ISO 46	330
L/35 L60–L95 + 4635–7638	R134a	1600	PAG	PAO 68 or PAG ISO 46	185
LM LM410–LM610	R134a	750	PAG	PAO 68 or PAG ISO 46	135
LM LM5000	R134a	1600	PAG	PAO 68 or PAG ISO 46	185
M/60 M100–M160 + 8160–8560	R134a	1800	PAG	PAO 68 or PAG ISO 46	200
TD 5000	R134a	1400	PAG	PAO 68	n/a
TDD	R134a	1400	PAG	PAO 68	n/a
TG 230–285	R134a	2100	PAG	PAO 68	n/a
TL/TLA TL70–TL100	R134a	1600	PAG	PAO 68 or PAG ISO 46	185
TM 1 TM115–TM165	R134a	1400	PAG	PAO 68 or PAG ISO 46	200
TM 2 TM120–TM190	R134a	1100	PAG	PAO 68	n/a
TNF TN65F–TN90F	R134a	800	PAG	PAO 68 or PAG ISO 46	185

		g	OE	BEHR	ml
New Holland					
TND/TNS TN55–TN75	R134a	800	PAG	PAO 68 or PAG ISO 46	185
TN VA	R134a	750	PAG	PAO 68	n/a
TS TS80–TS100 + TS115	R134a	1500	PAG	PAO 68 or PAG ISO 46	200
TSA 100–135	R134a	1100	PAG	PAO 68	n/a
TVT 135–195	R134a	1500	PAG	PAO 68	n/a
T4000	R134a	1400	PAG	PAO 68	n/a
T4000 F/N/V	R134a	1200	PAG	PAO 68	n/a
T5000	R134a	1600	PAG	PAO 68	n/a
T6000 6030–6080	R134a	900	PAG	PAO 68	n/a
T7000 up to chassis frame no. Z8B24553	R134a	1100	PAG	PAO 68	n/a
T7000 from chassis frame no. Z8B24554	R134a	900	PAG	PAO 68	n/a
T7500	R134a	1600	PAG	PAO 68	n/a
Renault					
54 Series TX/TZ/TS	R134a	1000	PAG	PAO 68	n/a

		g	OE	BEHR	ml
Renault					
Ares 546/556/566/616/626/636/696	R134a	1450	PAG	PAO 68	n/a
Celtis	R134a	1800	PAG	PAO 68	n/a
Fructus	R134a	1000	PAG	PAO 68	n/a
Nectis	R134a	800	PAG	PAO 68	n/a
Temis	R134a	1450	PAG	PAO 68	n/a
Same					
Antares 100–105 CV	R134a	1600	PAG	PAO 68	n/a
Antares 110–130 CV	R134a	1800	PAG	PAO 68	n/a
Dorado 55/60/75/85	R134a	950	PAG	PAO 68	n/a
Dorado 56/76/86	R134a	1100	PAG	PAO 68	n/a
Dorado 60/70 CV	R134a	1400	PAG	PAO 68	n/a
Dorado S70/S75/S90/S100	R134a	950	PAG	PAO 68	n/a
Explorer I 75/85/95	R134a	1800	PAG	PAO 68	n/a
Explorer II 70/90 CV SLH/HP	R134a	1600	PAG	PAO 68	n/a

		g	OE	BEHR	ml
Same					
Explorer III 85SP/100SP/110SP	R134a	850	PAG	PAO 68	n/a
Explorer III 85SD/100SD/110SD	R134a	1400	PAG	PAO 68	n/a
Frutteto I 60/100	R134a	1300	PAG	PAO 68	n/a
Frutteto II 60/85 CV/HP	R134a	1300	PAG	PAO 68	n/a
Frutteto III 80/90/100	R134a	950	PAG	PAO 68	n/a
Galaxy 170	R134a	1800	PAG	PAO 68	n/a
Golden 60/65/75/85	R134a	950	PAG	PAO 68	n/a
Iron 100/110/120	R134a	1600	PAG	PAO 68	n/a
Iron 130S/140S/150S/165S/200S	R134a	1950	PAG	PAO 68	n/a
Laser 3	R134a	1600	PAG	PAO 68	n/a
Laser 100/150	R134a	1800	PAG	PAO 68	n/a
Rubin 120/135/150	R134a	1600	PAG	PAO 68	n/a
Silver 80–150	R134a	1800	PAG	PAO 68	n/a
Solaris 35/45/55	R134a	1100	PAG	PAO 68	n/a
Titan-Racing 145/190 CV	R134a	1800	PAG	PAO 68	n/a

		g	OE	BEHR	ml
Steyr					
CVT 120/130/150/170	R134a	1500	PAG 100	PAO 68 or PAG ISO 100	300
M900	R134a	1400	PAG	PAO 68	250
9000/M9000 model: Konvekta, straight hood	R134a	1000	PAG 100	PAO 68 or PAG ISO 100	210
9000/M9000 model: MCC, straight hood	R134a	1200	PAG 100	PAO 68 or PAG ISO 100	210
9000/M9000 model: MCC, installed on the roof	R134a	1100	PAG 100	PAO 68 or PAG ISO 100	210
9000/M9000 model: MCC, integrated in the roof	R134a	1400	PAG 100	PAO 68 or PAG ISO 100	220
9100 Series: 9105/9115/9125/9145	R134a	1500	PAG 100	PAO 68 or PAG ISO 100	220
9100 Series: 9160/9180/9200	R134a	1700	PAG 100	PAO 68 or PAG ISO 100	n/a
Profi Motor: 4-cylinder + 2-valve	R134a	1100	PAG 100	PAO 68 or PAG ISO 100	210
Profi Motor: 6-cylinder + 2-valve	R134a	850	PAG 100	PAO 68 or PAG ISO 100	210
Profi Motor: 4-valve	R134a	850	PAG 100	PAO 68 or PAG ISO 100	210
Ursus					
C-350	R134a	750	SP20	PAG ISO 100 or PAO 68	185
C-380/C-380M/C-385/C-395	R134a	1150	SP20	PAG ISO 100 or PAO 68	185

		g	OE	BEHR	ml
Ursus					
C-3105/C-3110/C-3110HL	R134a	1150	SP20	PAG ISO 100 or PAO 68	185
Valtra					
600–900	R134a	1200	PAG	PAO 68	n/a
6000–8750	R134a	1400	PAG	PAO 68	n/a
A72–A92	R134a	1100	PAG	PAO 68	n/a
A75n–A95n	R134a	1200	PAG	PAO 68	n/a
A83h–A93h	R134a	800	PAG	PAO 68	n/a
C90–C150	R134a	1600	PAG	PAO 68	n/a
M120–M150	R134a	1600	PAG	PAO 68	n/a
N82h–N92h	R134a	1100	PAG	PAO 68	n/a
N91c–N111c/N91h–N141h/N121LS–N141LS	R134a	1600	PAG	PAO 68	n/a
N93H3/N93H5/N103H3/N103H5	R134a	850	PAG	PAO 68	n/a
N122V–N142V/N122D–N142D	R134a	900	PAG	PAO 68	n/a
N113H–N143H/N143V–N163V/N143D–N163D	R134a	850	PAG	PAO 68	n/a

		g	OE	BEHR	ml
Valtra					
S230–S280	R134a	1600	PAG	PAO 68	n/a
S232–S352	R134a	1000	PAG	PAO 68	n/a
S233–S353	R134a	1000	PAG	PAO 68	n/a
T120–T190	R134a	1600	PAG	PAO 68	n/a
T121c–T171c/T121h–T191h/T151eLS–T191LS	R134a	1600	PAG	PAO 68	n/a
T132V–T202V/T132D–T202D	R134a	900	PAG	PAO 68	n/a
T133H–T193H/T153V–T213V/T153D–T203D	R134a	850	PAG	PAO 68	n/a
White					
6065C effec 51091	R134a	1350	PAG	PAO 68	n/a
6085 effec 1566	R134a	1350	PAG	PAO 68	n/a
6105 effec 1402	R134a	1880	PAG	PAO 68	n/a
6124/6144	R134a	1400	PAG	PAO 68	n/a
6410/6510	R134a	1450	PAG	PAO 68	n/a
6710/6810	R134a	1700	SP10	PAO 68 or PAG ISO 46	190

		g	OE	BEHR	ml
White					
8010 Series	R134a	1700	SP10	PAO 68 or PAG ISO 46	190
Zetor					
Forterra	R134a	800	PAG	PAO 68	n/a
Major	R134a	800	PAG	PAO 68	n/a
Proxima	R134a	800	PAG	PAO 68	n/a
Proxima Plus/Power	R134a	800	PAG	PAO 68	n/a

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