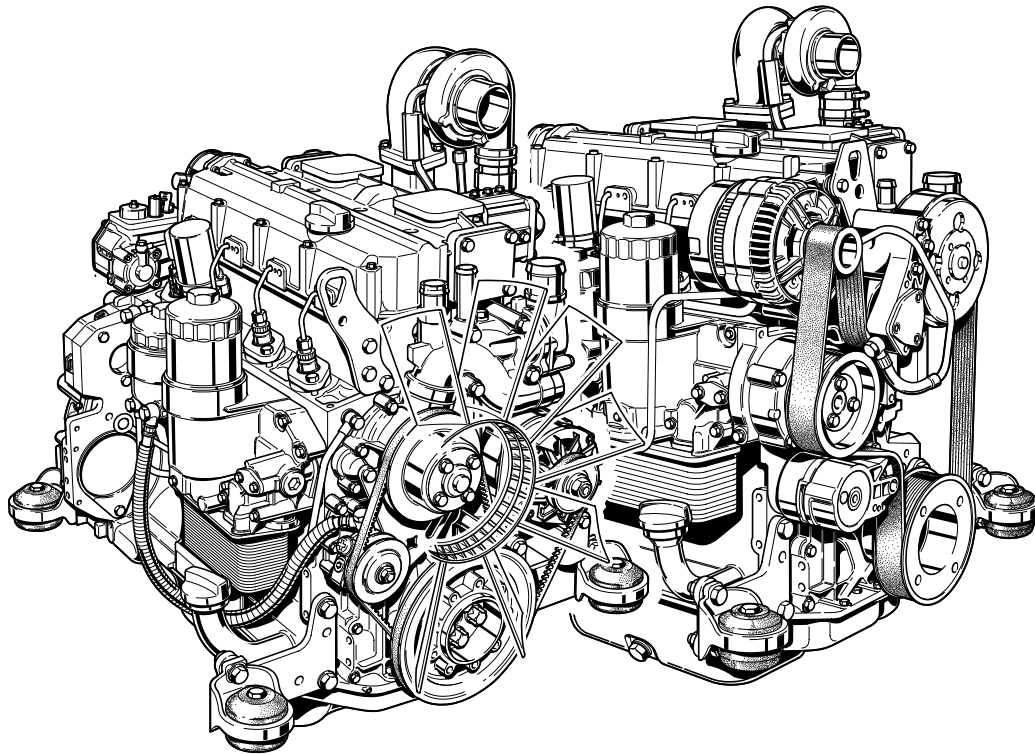


Operation Manual 2012



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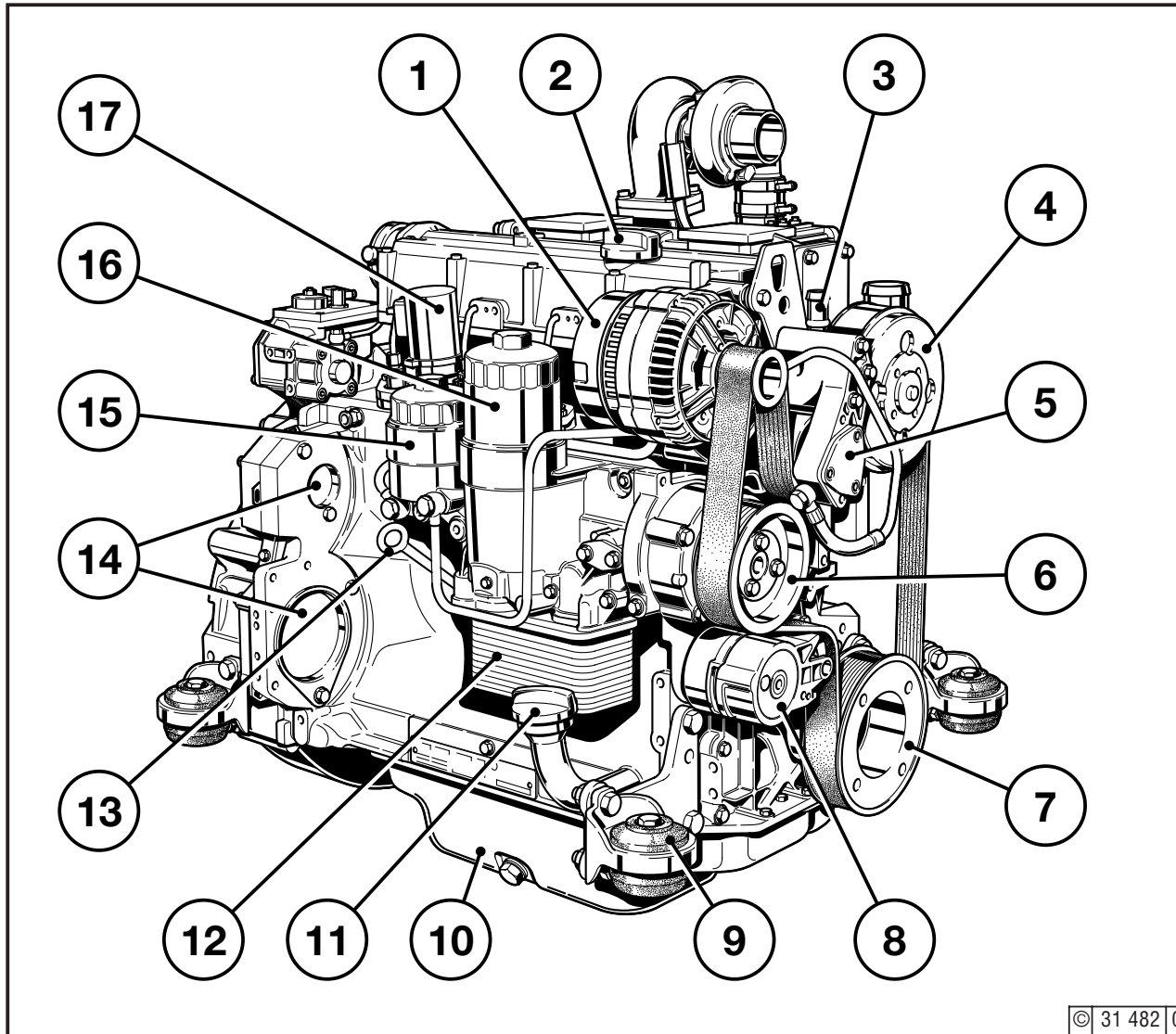
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Engine Description

2.2 Engine Illustration

2

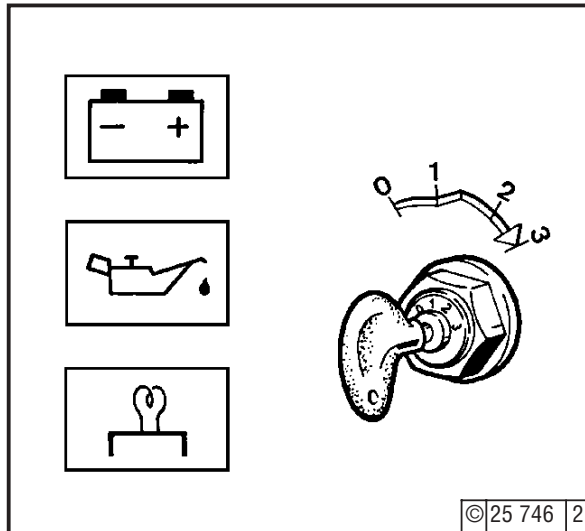
2.2.1 Operating Side 2012 Ribbed V-belt drive



- 1 Alternator
- 2 Oil filler
- 3 Coolant connection compensation line
- 4 Fan pulley
- 5 Fuel pump
- 6 Coolant pump
- 7 Ribbed V-belt pulley on crankshaft
- 8 Tension roller
- 9 Feet
- 10 Oil pan
- 11 Oil filler neck
- 12 Oil filter housing with engine oil cooler
- 13 Oil dipstick
- 14 Optional attachment of:
Compressor or hydraulic pump
- 15 Fuel filter cartridge
- 16 Oil filter cartridge
- 17 Tractive electromagnet

3.2 Starting

with cold start assistance
Heater flange



- Insert key
 - Position 0 = no operating voltage.
- Turn key clockwise
 - Position 1 = operating voltage.
 - Pilot lights illuminate, pre-glowing until glow indicator is extinguished.
- Push key in and turn further clockwise against spring pressure.
 - Position 2 = no function
 - Position 3 = start
- Release key as soon as engine fires.
 - The pilot lights will go out.

Cooling system protection									
Cooling system protection in	Frost protection in [°C]	content of coolant system *) [Litres]							
		18	20	22	25	27	30	32	35
		Cooling system protectant							
35	-22	6,3	7,0	7,7	8,75	9,5	10,5	11,2	12,3
40	-28	7,2	8,0	8,8	10	10,8	12	12,8	14
45	-35	8,1	9,0	9,9	11,3	12,2	13,5	14,4	15,8
50	-45	9,0	10	11	12,5	13,5	15	16	17,5

*) For coolant content of your engine, see Operation Manual Chapter 9.1.
 Note: Grey sector only after consulting head office

6.1 Lubrication System

6.2 Fuel System

6.3 Cooling System

6.4 Combustion Air Filter

6.5 Belt Drives

6.6 Adjustments

6.7 Accessories

8.1 Preservation

If the engine is to remain idle for an extended period of time, it is necessary to take protective measures to prevent the formation of corrosion. The preservative measures described here will protect the engine for up to approx. 6 months. The procedure will have to be reversed before the engine is recommissioned.

- Anti-corrosion oils to specification:
 - MIL-L 21260B
 - TL 9150-037/2
 - Nato Code C 640 / 642
- Recommended cleaning agent to remove preservatives:
 - Petroleum benzine (hazardous materials class A3)

Preserve engine:

- Clean engine (poss. with cold cleaner).
Radiator cleaning, see 6.3.2.
- Run engine until warm, then turn off.
- Drain engine oil, see 6.1.2, and fill with anti-corrosion oil.
- Drain coolant, see 6.3.3.
- Top up anti-corrosion agent, see specifications.
- Clean oil bath air filter if necessary, see 6.4.3, and top up anti-corrosion oil.
- Drain fuel tank.
- Make up a mixture of 90 % diesel fuel and 10 % anti-corrosion oil, and refill fuel tank.
- Allow the engine to run for approx. 10 mins.
- Switch off the engine.
- Manually turn the engine over several times. When turning over with starter, set shutoff lever to stop position.
- Remove V-belts and store in wrapped condition.
- Spray grooves on V-belt pulleys 2 with anti-corrosion spray.
- Drain anti-corrosion agent, see 6.3.3.
- Lightly preserve coolant filler neck and seal with cap.
- Seal intake ports and exhaust ports.

Remove engine preservation:

- Remove anti-corrosion agent from grooves in V-belt pulleys 2.
- Install V-belts. Retension after brief operation if necessary, see 6.5.
- Remove covers from intake port 3 and exhaust port 4.
- Disconnect coolant inlet and outlet neck covers, remove protection and connect to cooling system.
- Top up coolant, see 6.3.4. System must be bled.
- Commission engine

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