

B. Lubricating and Maintenance Schedule for the Built-in Engines OM 636. VI-E

The detailed instructions for the conduction of the lubrication and maintenance operations can be taken from the owner's manual.

Please request from the plant or our agency advice on lubrication and maintenance operations for extreme operating conditions, as well as on the problem whether the maintenance should be adapted to the operating time or the fuel consumption.

Daily is to be checked, if necessary replaced and/or cleaned:

Fuel contents in tank	
Oil level in the oil pan	
Water level in the cooling system	
Oil bath air filter (if applicable according to specification of the producer)	} for especially dusty operating conditions (e.g. use of engine in motor sweeper, combines, in building trade etc.)
Radiator for air passage	

The following lubricating and maintenance schedule contains in the left column the operations to be executed after reaching the operating hours, fuel consumptions, or km covered as indicated in the table on the right side.

Operations to be done	Cycle	For Maintenance after											
		Operating hours				Fuel consumption in litres				km*			
1 thru 8, 14, 16, 17	A	30 (only during running-in)				100 (only during running-in)				500 (only during running-in)			
1 and 2	B	100	900	1 700	2 500	400	3 600	6 800	10 000	3 000	27 000	51 000	75 000
1 and 12	C	200	1 000	1 800	2 600	800	4 000	7 200	10 400	6 000	30 000	54 000	78 000
1 and 2	B	300	1 100	1 900	2 700	1 200	4 400	7 600	10 800	9 000	33 000	57 000	81 000
1 thru 14	D	400	1 200	2 000	2 800	1 600	4 800	8 000	11 200	12 000	36 000	60 000	84 000
1 and 2	B	500	1 300	2 100	2 900	2 000	5 200	8 400	11 600	15 000	39 000	63 000	87 000
1 and 12	C	600	1 400	2 200	3 000	2 400	5 600	8 800	12 000	18 000	42 000	66 000	90 000
1 and 2	E	700	1 500	2 300	3 100	2 800	6 000	9 200	12 400	21 000	45 000	69 000	93 000
1 thru 16	B	800	1 600	2 400	3 200	3 200	6 400	9 600	12 800	24 000	48 000	72 000	96 000

* Maintenance work according to distance covered should only be performed on engines which are installed in normal motor vehicles and reach an average covered distance of at least 30 kilometers per hour.

For exclusively short distance drives or operation in dusty areas, change oil every 1500 km, follow quality and viscosity specifications.

1. Change oil in oil pan (drain while oil is still hot).
2. Clean oil filter.
3. Check oil level in injection pump, fill 1 cm³ oil into governor of injection pump.
4. Actuate several times priming pump on the fuel feed pump.
5. Check lines and connecting hoses for motor oil, cooling water, and fuel for leaks, abrasions, and indentations.
6. Check tautness of V-belt.
7. Inspect battery, check acid level and density.
8. Check and oil joints of levers, linkage, and cable controls of injection pump to maintain operational ease.
9. Clean fuel pre-filter (if installed), if not, check cleanness of fuel filter.
10. Clean air filter and check air passages of radiator, clean if necessary.
11. Check oil level in bearing housing of water pump.

12. Oil generator (only generators with cap oiler).
13. Check cleanness of fuel filter, clean if necessary.
14. Check valve clearance (cold, inlet 0.20 mm, exhaust 0.15 mm).
15. Check pre-combustion chamber for cracks and burning residues, check wear of generator brushes.
16. Check tightness of nuts and bolts, especially at exhaust and intake lines, as well as engine mounting.
17. Tighten cylinder holding-down bolts (while engine is hot according to specifications).

After approx. 1600, 2400 and 3200 operating hours, after a fuel consumption of 6400, 9600 and 12800 litres, or after a covered distance of 48 000, 72 000 and 96 000 km we recommend that you have the engine inspected by an approved expert. He can judge whether and to what extent maintenance and repair work becomes necessary.

Lubricating and Maintenance Points of Engine OM 636

Figure 0-9/1

- 1 Oil filler cap
- 2 Cap oiler at governor of injection pump
- 3 Relief valve at oil filter
- 4 Relief valve at main oil passage
- 5 Oil filter (horizontal version)
- 6 Oil drain plug
- 7 Lubricating nipple and/or the two screw plugs of water pump bearing housing for filling in oil and checking oil level
- 8 Bleeder screw at fuel filter
- 9 Bleeder screw at injection pump
- 10 Priming pump for fuel
- 11 Fuel inlet
- 12 Oil dipstick at injection pump

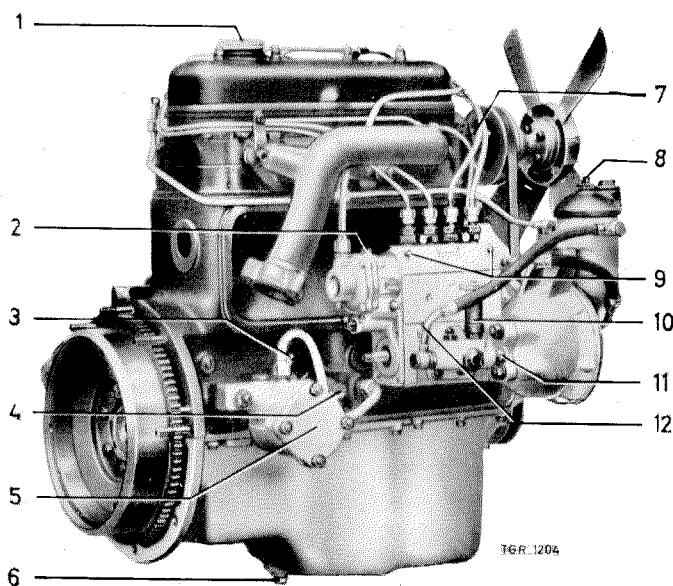


Figure 0-9/2

- 1 Adjusting lever at throttle duct
- 2 Connector for remote thermometer
- 3 Oiler at the generator
- 4 Oil dipstick for the crankcase
- 5 Cooling water inlet
- 6 Air vent for crankcase
- 7 Fuel leak and relief line
- 8 Glow plugs

