

# Lubricants

Design components and lubricants must be matched in order to guarantee satisfactory performance. **On principle, we specify H.D. motor oil for the OM 636 and OM 621.** In the interest of our customers we continuously test the lubricants on the market to ascertain whether they are qualified for our engines. For reasons of neutrality and because of the large number of products released by us we do not want to list the trademarks, here, **but you should only use one of the released products.**

Our plants as well as our service organisation in Germany and in foreign countries are able to give you expert advice on queries about lubricants, especially on the tested and approved products. If doubts on this subject should ever arise in a country outside Germany and an inquiry at a service agency is impossible, then, to be on the safe side, use the product of a well-known firm which has an extensive international chain of service stations at its disposal.

The viscosity of all lubricants depends more or less on the temperature. The specified viscosity for the respective time of the year can be taken from the table below.

Lubricating Point (capacity)	Lubricants			
<b>Engine and cylinder crankcase</b> (for OM 621 max. 4 lit. min. 2.5 lit. for OM 636 according to design of oil pan, see page 0-1/11 to 0-1/31)  <b>Oil filter</b> (for OM 621 0.5 lit. for OM 636 according to design of oil filter see page 0-1/11 to 0-1/31)  <b>Injection pump</b> (for OM 636 up to the oil level mark on the oil dip stick and into the governor housing approx. 1 cm <sup>3</sup> For OM 621 up to the oil level check bore – oil will flow out).  <b>Air cleaner</b> (for wet-type air filter approx. 50 gr., for oil-bath air filter approx. 0.25 lit., fill up to the oil level mark)  <b>Generator</b> (a few drops into the flap oiler)  <b>Air compressor</b> (approx. 0.125 lit.)	<b>HD-engine oil</b>			
	<b>OM 636</b>		<b>OM 621</b>	
	Outside temperature	SAE group	Outside temperature	SAE group
	above + 30° C	30	above + 30° C	30
	from –10° C to +30° C	20 W/20 or 10 W–20	from –10° C to +30° C	20 W/20 or 10 W–20
	from –25° C to –10° C	20 W/20 or 10 W–20 or 10 W	from –25° C to +10° C	10 W or 10 W–20
	below –25° C	10 W	below –25° C	5 W or 5 W–20
	The change to another SAE value demanded by the season can normally take place with the subsequently necessary oil change. The change-over need only be done out of turn if the cold weather occurs suddenly.			
<b>Water pump</b> (10 cm <sup>3</sup> E.P. oil and/or 45 g. grease for first filling depending on design of water pump)  <b>Fan hub</b> (approx. 40 cm <sup>3</sup> , no maintenance)	<b>Hypoid Gear Oil</b>  Throughout the year SAE 90 <b>Note:</b> Anti-friction bearing grease for greasing of the water pump			