



## 5.15 Fluids and lubricants

Component/application	Fluid/lubricant	Specification	Season/tempera- ture	Capacities <sup>1</sup>
Diesel engine	Engine oil	API: CG-4/CH-4/CI-4 ACEA: E3, E4, E5	-15 °C (-5 °F) - +45 °C (+104 °F)	2.5 l (0.66 gal)
		ACEA E3, E4, E5 (SAE10 W 40) <sup>2</sup>		
Hydraulic oil reservoir	Hydraulic oil	HVLP 46 <sup>3</sup>	Year-round <sup>4</sup>	13.8 liters (3.6 gallons)
	Biodegradable oil <sup>5</sup>	PANOLIN HLP Synth 46 <sup>6</sup>		
		BP BIOHYD SE-S 46 <sup>6</sup>		
Grease	Roller and friction bearings	- KPF 2 K-20 <sup>7</sup> ISO-L-X-BCEB 2 <sup>8</sup>	Year-round	As required
	Live ring gears			
	Live ring (ball bearing race)			
	Grease zerks			
Battery terminals	Acid-proof grease 9	FINA Marson L2	Year-round	As required
Fuel tank <sup>10</sup>	Diesel fuel <sup>11</sup>	ASTM D975-94: 1D, 2D (USA)	Depending on outside temperatures Summer or winter diesel fuel	7 ltr. (1.85 gal)
		EN 590 (EU)		
		ISO 8217 DMX (International)		
		BS 2869-A1, A2 (GB)		
		JIS K2204 (Japan)		
		KSM-2610 (Korea)		
		GB252 (China)		
	Biodiesel	EN 14214		
		ASTM D-6751		
Radiator	Coolant	Distilled water + antifreeze ASTM D4985 (reddish) <sup>12</sup>	Year-round	2.9 l (0.76 gal)
		Distilled water + antifreeze ASTM 6210 (violet) <sup>13</sup>		

- The capacities indicated are approximate values; the oil level check alone is relevant for the correct oil level Capacities indicated are no system fills
   According to DIN 51511

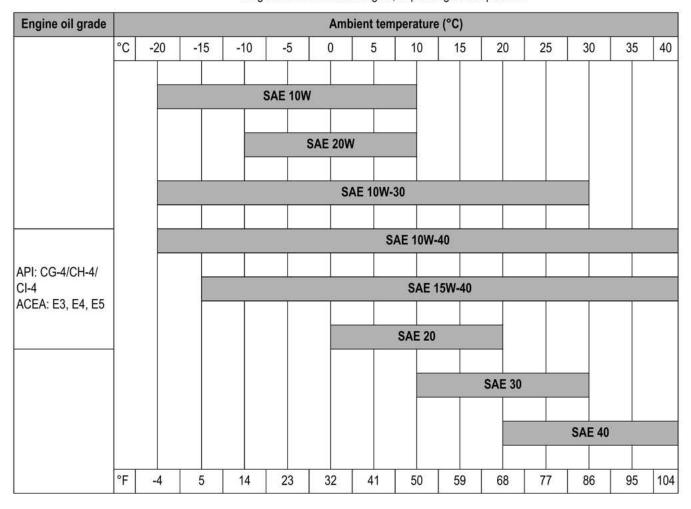
- According to DIN 51524 section 3
   Depending on local conditions See Hydraulics oil grade on page 5-37
- Biodegradable hydraulic oil based on saturated synthetic esters with an iodine value of < 10, according to DIN 51524, section 3, HVLP, HEES.</li>
   Dual Power option: During operation with the electro-hydraulic power unit HPU8, there must be no biodegradable hydraulic oil in the excavator or the power unit. Both must be filled with HVLP 46. Contact a Wacker Neuson service center before using power units from other manufacturers.
- KPF 2 K-20 according to DIN 51502 multipurpose lithium grease.
- ISO-L-X-BCEB 2 according to DIN ISO 6743-9.
- Standard acid-proof grease
- 10. Sulfur content below 0.05 %, cetane number over 45
- 11. In countries where level 3A/Tier IV exhaust emission regulations apply provisionally, use diesel fuels with a sulfur content of < 15 ppm.
- 12. Up to serial no. WNCE0801EPAL00899
- 13. From serial no. WNCE0801VPAL00900

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## Oil grades for the diesel engine, depending on temperature



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