



5.15 Fluids and lubricants

Component/application	Fluid/lubricant	Specification	Season/temperature	Capacities ¹
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) ²		
Hydraulic oil reservoir	Hydraulic oil	HVLP 46 ³	Year-round ⁴	13.8 liters (3.6 gallons)
	Biodegradable oil ⁵	PANOLIN HLP Synth 46 ⁶		
		BP BIOHYD SE-S 46 ⁶		
Grease	Roller and friction bearings	KPF 2 K-20 ⁷ ISO-L-X-BCEB 2 ⁸	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 ¹⁰	Diesel fuel ¹¹	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) ¹²	Year-round	2.9 l (0.76 gal)
		Distilled water + antifreeze ASTM 6210 (violet) ¹³		

1. The capacities indicated are approximate values; the oil level check alone is relevant for the correct oil level

Capacities indicated are no system fills

2. According to DIN 51511

3. According to DIN 51524 section 3

4. Depending on local conditions – see **Hydraulics oil grade** on page 5-37

5. Biodegradable hydraulic oil based on saturated synthetic esters with an iodine value of < 10, according to DIN 51524, section 3, HVLP, HEES.

6. 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.

7. KPF 2 K-20 according to DIN 51502 multipurpose lithium grease.

8. ISO-L-X-BCEB 2 according to DIN ISO 6743-9.

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



Oil grades for the diesel engine, depending on temperature

Engine oil grade	Ambient temperature (°C)														
	°C	-20	-15	-10	-5	0	5	10	15	20	25	30	35	40	
		SAE 10W													
		SAE 20W													
		SAE 10W-30													
		SAE 10W-40													
		SAE 15W-40													
		SAE 20													
		SAE 30													
		SAE 40													
API: CG-4/CH-4/ CI-4 ACEA: E3, E4, E5															