

Hydraulic fluid and lubricants

Hydraulic fluid

The grade of hydraulic fluid supplied with the machine is specified on the sticker positioned on the hydraulic tank of the machine.

Grade/Type	Standard	Lowest start temperature	Operating temperature
Mineral oil ISO VG46	ISO-L-HV DIN 51524 / 3 HVLP ISO VG46	-17°C	+10°-+85°C (Ideally 50-75°C)
Quintolubric 888	HFDU ISO VG46	-17°C	0°-+75°C (Ideally 40-75°C)
Condat D46	HFDU ISO VG46	-17°C	+10°-+85°C (Ideally 50-75°C)

NB! The machine can be damaged if different types of hydraulic fluids are mixed. Check the hydraulic grade of the fluid in the hydraulic system of the machine before filling or changing the fluid.

The machine manufacturer must be consulted before any type of hydraulic fluid, other than those stated in the table above, is used in the machine.

Lubricant

Component	Grade	Standard
Slew transmission	SAE 80W-90	API GL 5
Drive wheel transmission	SAE 80W-90	API GL 5
All lubrication points with lubrication nipples	NLGI 2	

Tool and extra equipment

See documentation from respective tool supplier to obtain the correct grade of lubricant, so that any supplier warranty remains valid.

Engine oil

KUBOTA DIESEL III

Engine oil should be MIL-L-2104C or have properties of API classification CF or higher. Change the type of engine oil according to the ambient temperature.

above +25°C (+77°F)	SAE30 or	SAE10W-30 SAE15W-40
-10°C to +25°C (-14°F to +77°F)	SAE10W-30 or	SAE15W-40
below -10°C (-14°F)	SAE10W-30	

KOHLER DIESEL IV

-20°C to +45°C (-4°F to +113°F)	SAE10W-30	LOW S.A.P.S.
-30°C to +30°C (-22°F to +86°F)	SAE5W-30	
-30°C to +45°C (-22°F to +113°F)	SAE5W-40	
API	CJ-4	
ACEA	E6-E7-E9	

When using oil of different brands from the previous one, be sure to drain all the previous oil before adding the new engine oil.