

## Product information

No. 33840000

# KAJO-BIO-Hydrauliköl HEES 46

EU Ecolabel: DE/027/002



**KAJO-BIO-Hydrauliköl HEES 46** is based on selected synthetic and easily biodegradable ester combined with an especially efficient and environmentally friendly combination of additives.

**KAJO-BIO-Hydrauliköl HEES 46** is free of zinc. It offers an excellent oxidation stability, corrosion / EP protection and low-temperature behavior.

**KAJO-BIO-Hydrauliköl HEES 46** meets the minimum technical requirements according to VDMA 24568 und ISO 15380.

**KAJO-BIO-Hydrauliköl HEES 46** is marked with the environmental label „Blauer Engel“, according to RAL-UZ 178.

**KAJO-BIO-Hydrauliköl HEES 46** is marked with the Ecolabel of the European Union, registration no. DE/027/002. Apart from the technical requirements, this label stipulates the part of the renewable raw materials.

### **Practical advantages:**

**KAJO-BIO-Hydrauliköl HEES 46** can be applied in all areas prone to discharging hydraulic liquids getting into the ground water or into the sewage, among them technical devices working for water clearance, in water protection areas or in the area of surface water.

- dredgers
- watergates / stream wears
- pipe and tunnel driving
- hydraulic aggregates in fields and forest
- earth-moving equipment in water
- forest tools

### **Approvals:**

- SP Technical Research Institute, Sweden (Swedish Standard 155434).

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# KAJO-BIO-Hydrauliköl HEES 46

**Typical characteristics**

Properties	Value	Unit	Norm
Viscosity class	46	ISO VG	DIN 51 519
Kin. viscosity at 40 °C	46,0	mm <sup>2</sup> /s	DIN ISO 3104
Kin. viscosity at 100 °C	9,8	mm <sup>2</sup> /s	DIN ISO 3104
Viscosity index	190	--	DIN ISO 3104
Density at 15 °C	920	kg/m <sup>3</sup>	DIN EN ISO 12 185
Density at 20°C	917	kg/m <sup>3</sup>	DIN EN ISO 12 185
Pour point	-33	° C	ASTM D 97
Flash point	>300	° C	DIN EN ISO 2592
Copper corrosion	1 A	--	DIN EN ISO 2160
Foam behavior SEQ I	10/0	ml	ASTM D 892
Foam behavior SEQ II	5/0	ml	ASTM D 892
Foam behavior SEQ III	10/0	ml	ASTM D 892
Air release, 50° C, max.	2	min	ISO 9120
Radio Carbon Method C <sup>14</sup>	85	%	ASTM D 6866