



20L | 1321105-020

20L | 1321105-B20

60L | 1321105-060

208L | 1321105-208

1000L | 1321105-700

RAVENOL Bio-Hydraulikoel HEES 46

Kategorie: Other hydraulic oil

Artikelnummer: 1321105

Viscosity: 46

Specification: Blauer Engel, DIN 51524-1, DIN 51524-2, DIN 51524-3, Eaton Brochure 03-401-2010 (Dry ASTM D943), EU Ecolabel, ISO 15380 HEES (Dry ISO 4263-3)

Oil type: Full synthetic

Recommendation: JCMAS P042 HKB, Parker Denison HF-1, Parker Denison HF-6 (Dry ASTM D4310), Parker Denison HF-2, US Vessel General Permit (VGP), VDMA 24568, VDMA 24570

Application: Agricultural machinery, Industry

RAVENOL BIO-Hydraulikoel HEES 46 is based on synthetic, easily biodegradable esters and a powerful, environmentally friendly combination of additives which gives the product excellent properties regarding oxidation stability, corrosion, low temperatures as well as EP behaviour.

Compared with products of vegetable triglyceride base, **RAVENOL BIO-Hydraulikoel HEES 46** has much better high temperature oxidation stability.

RAVENOL BIO-Hydraulikoel HEES 46 can be used year-round due to its outstanding low-temperature behaviour and provides excellent wear and corrosion protection.

Application Note

RAVENOL BIO-Hydraulikoel HEES 46 is used wherever there is the danger of hydraulic fluid leaking into the ground-or waste water. This includes all equipment operating in or near areas of water purification or water protection or near surface water, such as e.g. sewage treatment plants, dredging ships and floating dredges, lock hydraulics and river weirs, pipe and tunnel driving machines, hydraulic aggregates in forests and on fields, earth moving machines in water and forestry machines.

Characteristics

- Biodegradability
- Excellent corrosion protection
- Outstanding cold behaviour
- Excellent oxidation stability

Technical Product Data

PROPERTY	UNIT	DATA	AUDIT
Density at 20 °C	kg/m³	917,0	EN ISO 12185
Colour		gelb	VISUELL
Viscosity at 100 °C	mm²/s	9,45	DIN 51562-1
Viscosity at 40 °C	mm²/s	46,0	DIN 51562-1
Viscosity Index VI		190	DIN ISO 2909
Pourpoint	°C	-36	DIN ISO 3016
Flashpoint	°C	296	DIN EN ISO 2592
Seq. I at 24 °C	ml/ml	10/0	ASTM D892
Seq. II at 93,5 °C	ml/ml	5/0	ASTM D892
Seq. III at 24 °C after 93,5 °C	ml/ml	10/0	ASTM D892
Copper Strip Test at 121 °C		1a	ASTM D130
Air release at 50 °C, max.	min.	2	DIN ISO 9120

All indicated data are approximate values and are subject to the commercial fluctuations.