



# ECOSYNT HEES 46

## ISO VG 46

### Quickly biodegradable hydraulic oil

#### Description

ECOSYNT HEES 46 are quickly biodegradable hydraulic oils based on saturated ester liquids. The optimally coordinated, zinc-free additives guarantee maximum lubrication reliability across a wide temperature range and over the entire period of use.

#### Advantages

- biodegrades quickly
- very good viscosity-temperature behaviour
- high viscosity index
- excellent shear stability
- very good corrosion and non-ferrous-metal protection
- excellent protection against wear
- outstanding stability with regard to oxidation, ageing and hydrolysis
- good seal compatibility



#### Field of application

ECOSYNT HEES 46 is suitable for all hydraulic systems of snow groomers, construction, forestry and agricultural machinery where quickly biodegradable hydraulic oils are required, such as in gravel pits, on construction sites, bodies of water, underground construction, forestry and agricultural operations, power stations etc.

#### Notes

It is essential to follow the guidelines in accordance with DIN ISO 15380/A.1 and the manufacturer's specifications when changing from conventional hydraulic oils to quickly biodegradable hydraulic fluids.

#### Specifications

DIN ISO 15380; OECD 301B; Swedish Standard SS 15 54 34; DIN 51524-3 HVLP; DIN 51524-2 HLP; VDMA 24570; BOSCH REXROTH A4VSO125; SAUER-DANFOSS H1P078; SAUER-DANFOSS H1B110

#### Technical data

Properties	Unit	Test according to	Values
Colour			green
Density at 20 °C	g/cm <sup>3</sup>	ASTM D4052	0.917
Viscosity at 40 °C	mm <sup>2</sup> /s	DIN 51562-1	48
Viscosity at 100 °C	mm <sup>2</sup> /s	DIN 51562-1	8.5
Viscosity index		DIN ISO 2909	154
Pourpoint	°C	ASTM D5950	-60
Flash point C.O.C.	°C	DIN EN ISO 2592	>200
Biological degradability	%	OECD 301 B	>75
Iodine number	gJod/100 g	DIN 53241-1	<5

The above information corresponds to the current state of our knowledge. We reserve the right to make changes. The performance characteristics indicated are based on testing and production tolerances standard in this industry. A safety data sheet is available.

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