

## ECOSYNT HEES BE 46

Rapidly biodegradable hydraulic oils (EAL)

### Description

ECOSYNT HEES BE 46 / YORK 777 BIO hydraulic oils are rapidly biodegradable, based on saturated ester liquids, and meet the requirements for biodegradability according to OECD 301 B. The zinc-free additives ensure extremely reliable lubrication and excellent shear stability, even at high and very low operating temperatures.

### Product features

- official registration "blue angel"
- rapidly biodegradable
- designed for long-life use
- very wide temperature range
- very good filterability
- very high shear stability (stay in grade)
- very high wear protection
- very good material compatibility, especially with seals and elastomers



### Field of application

ECOSYNT HEES BE 46 / YORK 777 BIO is suitable for all hydraulic systems that require a sustainable, rapidly biodegradable hydraulic oil, such as in truck with trailer, on building sites, in gravel pits, underground mining, forestry, agricultural and gardening operations, sewage treatment plants, municipal vehicles, hydropower and wind power plants, watercraft and underwater vehicles, small appliances and equipment.

### Application

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 rapidly biodegradable hydraulic fluids.

### Notes

- Keep out of reach of children
- Do not dispose of unused product down the drain, into the watercourse or into the soil
- Any leftover product must be disposed of at a municipal hazardous waste collection point
- Recycle containers only if they are completely free of all leftover product

### Environmentally relevant information

Environmentally Acceptable Lubricant  
Environmentally acceptable lubricants (EAL) are defined as biodegradable, non-bioaccumulative and minimally harmful to the aquatic environment.

### Specifications

DIN 51524-2 HLP, DIN 51524-3 HVLP, DIN ISO 15380, DE-UZ 178 (DER BLAUE ENGEL), US EPA/VGP:13, CLASSIFIED AS EAL, OECD 301B, ISO 6743-4 HEES, ISO 6743-4 HV, SWEDISH STANDARD SS 15 54 34, VDMA 24568, VDMA 24570

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.

## ECOSYNT HEES BE 46

### Technical Data

Properties	Test according to	Unit	Values
Colour			green
Viscosity			ISO VG 46
Density at 20 °C		g/cm <sup>3</sup>	0.932
Viscosity at 40°C	DIN 51562-1	mm <sup>2</sup> /s	45.1
Viscosity at 100°C	DIN 51562-1	mm <sup>2</sup> /s	7.9
Viscosity index	DIN ISO 2909		150.0
Flash point	DIN EN ISO 2592	°C	> 200
Pourpoint	ASTM D5950	°C	-60
Iodine value	DIN 53241-1	glod/g	< 5
Biological degradability	OECD 301B	%	> 75

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