

## HIGHTEC SUNLUB® E 46

Fully synthetic, climate-friendly, high-performance multi-grade hydraulic oil for extended oil life and high system protection  
High-Tech mit Gutem Gewissen®

### Description

HIGHTEC SUNLUB® E 46 allows for greatly extended oil change intervals and has an excellent and durable multi-grade character. Designed for very high and highly fluctuating operating temperatures.



### Application

HIGHTEC SUNLUB® E 46 is specially developed for environmentally sensitive areas such as off-shore, construction or forestry and is also preferred in industrial facilities such as plastic injection molding machines. It is particularly suitable for heavily loaded hydrostatic drives and high-pressure hydraulic systems as well as for helical gearboxes or as circulation oil for plain and roller bearings.

### Approvals

- EATON E-FDGN-TB-002-E
- EATON Brochure 03-401-2010 Rev.1
- PARKER Denison HF-0, HF-1, HF-2, HF-6e
- ENGEL
- KraussMaffei
- EU Ecolabel NL/027/011
- SS 155434 AAV 46 environmentally acceptable
- H1 Registered INS-No. 1804969

### The quality of this product is equivalent to EU regulations

- AIST 126 & 127
- CINCINNATI MACHINE P70
- DIN 51 524-3 - HVLP (TOST wet)
- German Steel SEB 181222
- ISO 11158 HV
- ISO 15380 - HEPR
- ZF TE-ML 07H

### Additionally this product is recommended when the following filling instructions are required

- CAT-BF1, BF2
- CNH MAT 309
- Danfoss Power Solutions-520L0463
- Komatsu Forest
- Palfinger
- Poclain Hydraulics
- Volvo Hydraulics

### Benefits

- 100% fully synthetic
- Non-ester based
- Multi-grade character
- High protection level for the system and components
- Excellent aging stability in the presence of water
- Excellent filterability in the presence of water
- Prevents deposits, exceeds stringent manufacturer requirements
- Zinc-free and ash-free
- High shear stable viscosity index
- Significant energy saving potential
- H1 for incidental food contact registered
- EU Ecolabel certified
- SS 155434 for environmentally acceptable products certified

### Recommendation

HIGHTEC SUNLUB® E 46 is recommended for use in hydraulic systems which require hydraulic fluids according to ISO VG32, ISO VG46 or ISO VG68.



## HIGHTEC SUNLUB® E 46

### Typical characteristics

Property	Method	Unit	Value
Density at 15 °C	ASTM D-7042	g/ml	0.84
Corrosion effect on copper	DIN 51 811	Korr.-Grad	1a
Kinematic viscosity KV 40	ASTM D-7042	mm <sup>2</sup> /s	43,8
Kinematic viscosity KV 100	ASTM D-7042	mm <sup>2</sup> /s	8
Viscosity index	ASTM D-7042	-	157
Pour point	ASTM D-97 / DIN EN ISO 3016	°C	-40
FZG A/8.3/90 (min)	DIN 51354/2	SKS	>12
Biodegradability	OECD 301 B	%	>60%
Renewable Resource Content		%	>50%
RPVOT	ASTM D2272	min.	>1000
LAV	ASTM 3427		4,8
TOST	ASTM D943 / wet	h	> 1.000
Taper roller bearing shear test, Loss (20h)	CEC L-45-A-99	%	4,7
Flash point COC	DIN ISO 2592	°C	240
Demulsifying properties at 54 °C	DIN ISO 6614	min	20
Foaming behaviour at 24 °C	ASTM D 892	ml/ml	10/0
Foaming behaviour at 93.5 °C	ASTM D 892	ml/ml	20/0
Foaming behaviour at 24 °C after 93.5 °C	ASTM D 892	ml/ml	10/0

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