PRODUCT INFORMATION

HIGHTEC HLP 46 HVI

Multigrade hydraulic oil with a high viscosity index (VI) for hydraulics, industrial gears and bearings

Description

HIGHTEC HLP 46 HVI is a hydraulic oil containing additives to prevent corrosion, wear and friction.
HIGHTEC HLP 46 HVI has a high viscosity index that facilitates use, even at colder external temperatures.
HIGHTEC HLP 46 HVI contains agents that ensure clean hydraulics at all times.
HIGHTEC HLP 46 HVI is a multi-purpose lubricating oil with a high load-bearing capacity that improves performance in mixed-friction conditions, thus counteracting friction or frictional vibrations due to stick-slip. The air separation (LAV) characteristics and foaming behaviour are good. A special focus should also be placed on its good wear protection and cleaning properties as well as its good sludge carrying capacity.
HIGHTEC HLP 46 HVI exceeds the requirements concerning hydraulic oils in compliance with DIN 51524 Part 3 for hydraulics and concerning lubricating oils.

The quality of this product is equivalent to EU regulations

- DIN 51524, p. 1, 2, 3 (HL, HLP, HVLP)
- ISO 6743/4 (HV)
- ISO 11158 (HV)
- AFNOR NF E 48-603
- SS 155434
- VDMA 24318
- Vickers I-286-S

Benefits

- High level of wear protection
- First-rate VT performance
- Good corrosion protection
- Thermally stable
- Resistant to oxidation
- Good air separation ability and foaming behaviour
- Hydrolytic resistance

Recommendation

HIGHTEC HLP 46 HVI is recommended as/for:

- Break-in oil, also for overseas exports in the event of wet deliveries
- Electrical multi-plate clutches
- Cement factories
- Construction machinery
- Hydraulics used in agriculture

Typical characteristics

Property	Method	Unit	Value
Density at 15 °C	ASTM D-7042	g/ml	0.857
Kinematic viscosity KV 40	ASTM D-7042	mm^2/s	46
Kinematic viscosity KV 100	ASTM D-7042	mm^2/s	8,1
Viscosity index	ASTM D-7042	-	149
Flash point	ASTM D-92 / DIN EN ISO 2592	°C	216
Pour point	ASTM D-97 / DIN EN ISO 3016	°C	-39
Copper corrosion 100 A3	DIN 51759	Ranking	1
Steel corrosion, A=distilled water	DIN 51585	Ranking	0-A
FZG A/8.3/90 (min)	DIN 51354/2	SKS	11
Air separation efficiency at 50°C	DIN ISO 9120	min	<5
Demulsifying properties at 54°C	DIN ISO 6614	min	6
Foaming behaviour at 24°C	ASTM D 892	ml/ml	5/0
Foaming behaviour at 93.5°C	ASTM D 892	ml/ml	10/0
Foaming behaviour at 24°C after 93.5°C	ASTM D 892	ml/ml	5/0

The characteristics shown are typical of current production. This data cannot be constructed as a legally binding warranty or guaranty of certain product properties or of the suitability of the product for a specific application. ROWE products are continually improved. Therefore ROWE reserves the right to change all the technical data in this product information at any time without notice. All sales and deliveries shall be subject to our current General Terms and Conditions of Sale and Terms (www.rowe-oil.com).

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