PLANTOSYN 3268 ECO

Environmentally friendly, HVI multigrade hydraulic fluid based on synthetic esters (HEES), universally applicable, rapidly biodegradable according to OECD 301 B > 60%, awarded with the „European Ecolabel (EEL)“, non water pollutant

Description

PLANTOSYN 3268 ECO is a rapidly biodegradable hydraulic fluid based on synthetic esters (HEES according to ISO 15380). The product is non water pollutant adcording to the German legislation. PLANTOSYN 3268 ECO was especially developed for use in stationary and/or mobile hydraulic systems which are working in environmental high risk areas, such as water protection areas, where the environment and nature should be protected from the effects of oil leakage.

Application

PLANTOSYN 3268 ECO is recommended for use in hydraulic systems for which engine oils and/or motor oils of corresponding viscosity classes are recommended (SAE 5W, SAE 10W, SAE 15W, SAE 20W, SAE 20W-20 or ISO VG 32, 46, 68). PLANTOSYN 3268 ECO is absolutely shear-stable. It can be used as a shear-stable, multigrade hydraulic fluid with an extremely high VI which maintains its multigrade characteristics during the whole lifetime of the oil. The change-over guidelines according to ISO 15380 have to be observed when changing from mineral oil to PLANTOSYN 3268 ECO. In the interest of operational reliability, all filters in the system should be cleaned (metal filters, fine filters, etc.) or replaced (e.g. paper filters) after 50 hours of operation after having changed to PLANTOSYN 3268 ECO. The operating temperatures should be between - 35 °C and 90 °C.

Specifications / Approvals

- DIN 51519: ISO VG 46 (32 – 68)
- ISO 3448: ISO VG 46
- DIN 51524-2: HLP [1)]
- DIN 51524-3: HVLP [2)]
- ISO 15380: HEES
- FENDT: KDM 28/2006

1) HLP-Performance / TOST-Test without adding water

2) HVLP-Performance / TOST-Test without adding water

Advantages

- **Awarded with the “European Ecolabel (EEL)"**
- **Rapidly biodegradable according to OECD 301B, > 60%**
- **Good ageing stability**
- **Oil drain intervals as with mineral oil-based hydraulic fluids are possible**
- **Good compatibility with filter materials and hydraulic components (according to ISO 15380)**
- **Excellent shear stability, no shearing**
- **Excellent wear protection**
- **High viscosity index, multigrade characteristics**
- **Excellent low-temperature behaviour**
- **> 50% renewable raw materials**
- **Non water pollutant according to the German legislation**

EU Ecolabel: DE/027/160

EU Ecolabel www.ecolabel.eu

Better for the environment ...

- geringfügige Schädigung von Wasser und Boden bei der Anwendung
- enthält einen großen Anteil von Ausgangsstoffen auf biologischer Basis
- reduced harm for water and soil during use
- contains a large fraction of biobased material

... better for you.

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ISO/TS 16949, ISO 14001
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Typical data:

Product name	**PLANTOSYN 3268 ECO**		
Properties	**Unit**		**Test method**
ISO VG		46	DIN 51519
Kinematic viscosity			DIN EN ISO 3104
at – 20 °C	mm²/s	1550	
at 0 °C	mm²/s	340	
at 40 °C	mm²/s	47	
at 100 °C	mm²/s	9.5	
Viscosity index	-	191	DIN ISO 2909
Density at 15 °C	kg/m^3	920	DIN 51757
Colour	ASTM	1.0	DIN ISO 2049
Flashpoint (Cleveland Open Cup)	°C	300	DIN ISO 2592
Pourpoint	°C	- 45	DIN ISO 3016
Neutralisation number	mgKOH/g	1.1	DIN 51558-1
Air release at 50 °C	Minutes	5	DIN ISO 9120
Water content	mg/kg	< 500	ISO 12937, ISO 6296
Copper corrosion (3 h, 100 °C)	Degree of corrosion	1	DIN EN ISO 2160
Steel corrosion	Degree of corrosion	0-A	DIN ISO 7120
FZG A/8,3/90	Failure load stage	12	DIN ISO 14635-1
Vickers pump test (Vickers V105C)			DIN 51389-2
weight loss - vanes	mg	< 30	
weight loss - ring	mg	< 120	
Effect on sealing materials:			ISO 6072
HNBR, 1008 h, 80 °C:			
- change of Shore-A hardness	Shore	- 3.2	
- relative volume change	%	+ 5.5	
FPM AK 6, 1008 h, 80 °C:			
- change of Shore-A hardness	Shore	+ 1.1	
- relative volume change	%	+ 0.4	

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Product Information

The information contained in this product information is based on the experience and know-how of FUCHS SCHMIERSTOFFE GMBH in the development and manufacturing of lubricants and represents the current state-of-the-art. The performance of our products can be influenced by a series of factors, especially the specific use, the method of application, the operational environment, component pre-treatment, possible external contamination, etc. For this reason, universally-valid statements about the function of our products are not possible. Our products must not be used in aircrafts/spacecrafts or their components, unless such products are removed before the components are assembled into the aircraft/spacecraft. The information given in this product information represents general, non-binding guidelines. No warranty expressed or implied is given concerning the properties of the product or its suitability for any given application.

We therefore recommend that you consult a FUCHS SCHMIERSTOFFE GMBH application engineer to discuss application conditions and the performance criteria of the products before the product is used. It is the responsibility of the user to test the functional suitability of the product and to use it with the corresponding care.

Our products undergo continuous improvement. We therefore retain the right to change our product program, the products, and their manufacturing processes as well as all details of our product information sheets at any time and without warning, unless otherwise provided in customer-specific agreements. With the publication of this product information, all previous editions cease to be valid.

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