Product Information



PLANTOHYD N

Environmentally friendly hydraulic and lubricating oils based on natural esters, type HETG, according to ISO 15380, for mobile and stationary hydraulic equipments, awarded with the EU Ecolabel

Description

PLANTOHYD N products are hydraulic oils based on renewable, natural substances (triglycerides) with active ingredients for the improvement of oxidation and ageing stability. Due to their very good biodegradability, Plantohyd N-oils environmentally friendly alternative to mineral based hydraulic oils (at low and medium load). The high polarity of the PLANTOHYD N oils results in excellent lubricating properties. The products fulfill and exceed the minimum requirements according to ISO 15380, type HETG.

PLANTOHYD 40 N has been awarded with the EU Ecolabel.

Application

PLANTOHYD 32 N or PLANTOHYD 40 N can be applied in mobile and stationary hydraulic equipments which must be filled with ISO VG 32 or ISO VG 46 hydraulic oil. In case of an oil change to PLANTOHYD N in hydraulic aggregates the guidelines for fluid change according to ISO 15380 must be observed. Repair paints and paints/lacquers which are not based on 2-component systems, are perhaps not stable to mineral oil as well as natural esters. Therefore paint compatibility should be checked in advance. The PLANTOHYD N products will show their best performance at tank temperatures between 50 and 60 °C. Recommended temperature application: - 27 °C till + 70 °C.

Specifications

The products of the PLANTOHYD N series fulfill or exceed the requirements according to

• ISO 15380: HETG

FUCHS LUBRICANTS (UK) PLC

New Century Street, Hanley

EU Ecolabel for PLANTOHYD 40 N

Advantages

- Based on renewable raw materials, > 95%
- Environmentally compatible
- Rapidly biodegradable (> 60% according to OECD 301 B)
- Multigrade characteristics due to high natural, shear stable viscosity index
- Good corrosion protection
- Excellent lubricating properties
- Low evaporation loss
- Natural cleaning properties
- Good low temperature characteristics

EU Ecolabel: DE/027/273

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+44-1782 -20 37 00 +44-1782 -20 20 73 Fax GB-Stoke-on-Trent, Staffordshire, ST1 5HU contact-uk@fuchs-oil.com



Health, Safety and Environment - information is provided for products in the relevant Safety Data Sheet. This provides guidance on potential hazards, precautions and first-aid measures, together with environmental effects and disposal of used products

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Typical technical data:

Post fortunation	PLANTOHYD			
Product name		32 N	40 N	
Properties	Unit			Test method
ISO VG		32	46	DIN 51519
Kinematic viscosity at - 20 °C at 0°C at 40 °C at 100 °C	mm²/s mm²/s mm²/s mm²/s	898 280 31.4 7.4	1100 260 42 9.3	DIN EN ISO 3104
Viscosity index	-	213	215	DIN ISO 2909
Density at 15 °C	kg/m³	922	922	DIN 51757
Colour	ASTM	1.0	1.0	DIN ISO 2049
Flash point in open cup, acc. to Cleveland	°C	274	300	DIN ISO 2592
Pourpoint	°C	-39	-39	DIN ISO 3016
Neutralisation number	mgKOH/g	0.7	0.6	DIN 51558-1
Scuffing and scoring test, FZG A/8.3/90	failure load stage	12	12	DIN ISO 14635-1
Effect on sealing materials: FKM2, 1008 h, 80 °C - relative change of volume - change of Shore A hardness	% Shore		+ 0.5 - 2.0	ISO 6072
HNBR1, 1008 h, 80 °C - relative change of volume - change of Shore A hardness	% Shore		+ 3.8 - 2.8	

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