

# PLANTOHYD N

Environmentally friendly hydraulic and lubricating oils based on natural substances, type HETG, according to ISO 15380, for mobile and stationary hydraulic equipment.

### Description

PLANTOHYD N are specialty hydraulic oils based on renewable, natural substances (triglycerides) with active ingredients for the improvement of oxidation and ageing stability. Due to their high level of biodegradability they are offered as an environmentally acceptable alternative to mineral based hydraulic oils in systems operating at low and medium loads. The high polarity of the PLANTOHYD N oils in conjunction with a premium additive system provide excellent lubricating properties. The products fulfill and exceed the minimum requirements according to ISO 15380, type HETG.

## Application

PLANTOHYD 32 N or PLANTOHYD 40 N can be used in mobile and stationary hydraulic equipment which require an ISO VG 32 or ISO VG 46 hydraulic oil. When making an oil change to PLANTOHYD N the guidelines for fluid change according to ISO 15380 should be observed. Paints which are not compatible with esters are not recommended. In general, two-component coating systems can be used with ester-based products. The use of stainless-steel tanks and filter housings is recommended as is the use of suitable dryer systems and filtration units. Use ester-resistant compatible seals and plastics in general and the use of Viton FKM in dynamic stressed seals is recommended. The PLANTOHYD N products will show their best performance at tank temperatures between 50 and 60 °C. Recommended temperature range for application: - 27 °C to + 70 °C.

#### Advantages

- Based on renewable raw materials
- Environmentally acceptable lubricant
- Rapidly biodegradable (≥ 60% according to OECD 301 B)
- Multi-grade 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

### **Specifications**

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

ISO 15380: HETG (triglycerides)

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#### Characteristics:

Product name		32 N NA	40 N NA	
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
Color	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
Neutralization number	mg KOH/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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We therefore recommend you consult a FUCHS LUBRICANTS CO. 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. With the publication of this Product Information sheet, all previous editions cease to be valid.

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