

PLANTOHYD N

Environmentally compatible hydraulic and lubricating oils based on natural raw materials, type HETG according to ISO 15380, for mobile and stationary hydraulic equipment

Description

The PLANTOHYD N oils are environmentally compatible high-performance lubricating and hydraulic oils based on special natural raw materials. They contain additives to improve ageing stability, corrosion protection and anti-wear properties of the base oil. The products show excellent biodegradability and are an environmentally compatible alternative to mineral oil-based hydraulic fluids (at low and medium loads). Due to their high polarity, the PLANTOHYD N oils offer excellent lubricating properties. PLANTOHYD N fulfils and surpasses the minimum requirements according to ISO 15380, type HETG. PLANTOHYD 40 N has been awarded the German „Blauer Engel“ (Blue Angel) Eco Label.

Application

PLANTOHYD 32 N resp. PLANTOHYD 40 N can be used in mobile and stationary hydraulic equipment for which an ISO VG 32 resp. ISO VG 46 hydraulic oil is recommended. The change-over guidelines according to ISO 15380 have to be observed when converting a system to PLANTOHYD N. Repair paints and paints which are not based on 2-component-systems might not be compatible with mineral oil as well as natural raw materials like PLANTOHYD N. The PLANTOHYD N products perform best at tank temperatures between 50 und 60°C. Recommended operating temperature range: -27°C to +70°C.

Advantages

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

Specifications

The products of the PLANTOHYD N series fulfil and surpass the requirements according to

- ISO 15380: HETG
- RAL UZ 79: „Blauer Engel“ (Blue Angel) for PLANTOHYD 40 N



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Typical data:

Product name		32 N	40 N	
Properties	Unit			Test method
ISO VG		32	46	DIN 51 519
Kinematic viscosity				DIN EN ISO 3104
at -20°C	mm ² /s	898	1444	
at 0°C	mm ² /s	280	430	
at 40°C	mm ² /s	31.4	44	
at 100°C	mm ² /s	7.4	9.6	
Viscosity index	-	213	211	DIN ISO 2909
Density at 15°C	kg/m ³	922	922	DIN 51 757
Colour	ASTM	1.0	1.0	DIN ISO 2049
Flashpoint (COC)	°C	274	306	DIN ISO 2592
Pourpoint	°C	-39	-36	DIN ISO 3016
Neutralisation number	mgKOH/g	0.7	0.4	DIN 51 558-1
FZG A/8,3/90	Failure load stage	> 12	> 12	DIN ISO 14635-1
Effect on FPM AK 6 sealing material, 1000 h, 100°C				DIN ISO 1817
relative volume change	%		0.5	
change of Shore-A-hardness	Shore		-2	



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We therefore recommend that you consult a FUCHS EUROPE 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.

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