



Lubitec Hydraulic Fluid

(ISO 32/46/68)

Description

Hydraulic Oil is the first renewable and biodegradable hydraulic fluid that is formulated to meet both Ecolabel and Denison HF-0 Performance requirements. It is produced from NovaSpec Base Oils, which are composed of specific, highly desirable hydrocarbon molecules. The base oil imparts a novel combination of performance and environmental characteristics into the finished fluid. The additive package is optimized to satisfy a wide range of industrial and heavy-duty hydraulic equipment requirements. This product is formulated with highly effective ashless inhibitors to control oxidation, wear, corrosion and rust. high viscosity index and low pour point allow for product use over a wider temperature range than most conventional hydraulic oils.

Biobased

Biobased, biodegradable, non-bioaccumulative, non-aquatic toxic and not toxic to plants. Based on evaluation of the base oils and the finished products, the biobased products are designed to be biodegradable, aquatically non-toxic, not bioaccumulative and with no impact on plants as determined by known test methods. Nevertheless, the use of all the products are subject to the local ordinances and ultimate responsibility for impact remains with the users

Applications

- Mobile construction equipment
- Forestry & Agriculture equipment
- Offshore equipment
- Mining equipment
- Marine applications requiring VGP

Benefits

- Prevents wear of internal components, reduces system downtime and extends equipment life
- Extends service life even under high temperature
- Allows improved system operations over a wide temperature range
- Minimises the formation of emulsions to decrease downtime and maintain lubricant life
- Can be used in very cold environments
- High performance and drop-in compatibility for mineral oil replacement, reducing dependence on petroleum
- Biodegradable and non-toxic to reduce environmental impact in case of leaks or spills
- Minimal loss of viscosity in service

Performance Levels

- Parker Hannifin Hydraulics HF-0, HF-1, HF-2; Eaton Vickers Brochure 03-401-2010 (M-2950-S and I-865S); Fives Group P-68 and P-70; DIN 51524 Part 2, Anti-wear hydraulic Oils; AIST 127
- USDA BioPreferred: % of biobased content will satisfy requirements for USDA BioPreferred Program EcoLabel, VGP 2013 (Clean Water Act)

Properties	Test Method	ISO 32	ISO 46	ISO 68
Viscosity cSt @ 40 °C	ASTM D445	32	46	68
Viscosity cSt @ 100 °C	ASTM D445	6.1	7.9	10.8
Viscosity index	ASTM D2270	131	157	156
Density @ 15 °C (g/ml)	ASTM D4052	0.83	0.84	0.85
Pour Point °C	ASTM D97	-42	-45	-39
Flash Point °C	ASTM D92	242	242	245
Copper Corrosion	ASTM D130	1B	1B	1B
Oxidative Stability	ASTM D943, 1000hr	Pass	Pass	Pass
Demulsibility	ASTM D1401, 30 min	40-40-0	40-40-0	40-40-0
Rust	ASTM D665B	Pass	Pass	Pass
FZG, Fail Stage	ASTM D5182	12	12	12

Packaging	Gallons	Litres
Pail	5	19
Drum	55	208
Bulk Tote	As required	1040

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