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PRODUCT SPECIFICATIONS & TECHNICAL DATA

BIODEGRADABLE HYDRAULIC AND ELEVATOR FLUID ISO 22/32/46/68

PETROFLO TERRASAVE BIODEGRADABLE HYDRAULIC AND ELEVATOR FLUID is high performance hydraulic fluid developed for hydraulic elevators and its available in four ISO grades 22 / 32 / 46 / 68. It is biodegradable and non-hazardous, that contains no dangerous metallic sulfonate, zinc dithiodialkylphosphate, (ZDP), or phenolic inhibitors. Since **PETROFLO TERRASAVE BIODEGRADABLE HYDRAULIC AND ELEVATOR FLUID** is readily biodegradable and non-toxic, it is safe in the event of incidental spillage or leakage.

PETROFLO TERRASAVE BIODEGRADABLE HYDRAULIC AND ELEVATOR FLUID has outstanding thermal, oxidative and viscosity stability under a wide range of temperatures. It offers excellent foam protection and wear protection that enable it to meet the European anti-wear hydraulic fluid specification DIN 51524 Part II and requirements of the Denison HF-O, Vickers M-2950-S, I-286-S.

PETROFLO TERRASAVE BIODEGRADABLE HYDRAULIC AND ELEVATOR FLUID is a highly biodegradable hydraulic fluid made from renewable resources. Its excellent low temperature properties make it a good choice for outdoor stationary hydraulic equipment such as mining elevators and cranes. But its oxidative stability, lubricity and wear resistance make it a versatile oil that can be used in commercial elevators and construction equipment as well.

PETROFLO TERRASAVE BIODEGRADABLE HYDRAULIC AND ELEVATOR FLUID maintains proper viscosity over a wider temperature range. In cold temperatures, it remains more fluid so elevators won't level in short of the floor. When hot, it remains more consistent allowing the valves to operate properly. Elevator take away, or lift off, is also smoother with **PETROFLO TERRASAVE BIODEGRADABLE HYDRAULIC AND ELEVATOR FLUID** since it does not have the sticky suction problem in the packaging gland which can occur with petroleum oil.

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TYPICAL ANALYSIS

**PETROFLO TERRASAVE BIODEGRADABLE HYDRAULIC AND ELEVATOR FLUID
ISO 22, 32, 46, 68**

TYPICAL SPECIFICATIONS	ISO 22	ISO 32	ISO 46	ISO 68
Specific Gravity @ 15.6°C	0.88	0.88	0.88	0.88
Viscosity @ 40°C	22	32	46	68
Viscosity @ 100°C	4.27	5.3	6.7	8.5
Viscosity @ -25°C, Brookfield	1,000 cP	1,400 cP	3,400 cP	4,700 cP
Viscosity Index	105	105	105	105
Pour Point	-38°C	-35°C	-20°C	-17°C
Flash Point (COC)	205°C	232°C	240°C	248°C
Fire Point (COC)	230°C	255°C	264°C	270°C
Foam Sequence I, II, III (10 min)	0 Foam	0 Foam	0 Foam	0 Foam
Rust Prevention				
Distilled Water	Pass	Pass	Pass	Pass
Syn. Sea Water	Pass	Pass	Pass	Pass
Copper Corrosion Strip 3hr @ 100°C	1A	1A	1A	1A
Rotary Bomb Oxidation, (minutes)	268	270	270	258
Demulsibility, ML Oil/Water/Emulsion	40/40/0 <10 minutes	40/ 40/0 <10 minutes	40/ 40/0 <10 minute	40/ 40/0 <10 minute
4-Ball Wear, 1h, 167°F, 1200 RPM, 40 kg	0.43	0.41	0.41	0.41
<u>Biodegradation Classification</u>	Ultimate PW1	Ultimate PW1	Ultimate PW1	Ultimate PW1
<u>Environmentally Friendly</u>	yes	yes	yes	yes

The above analyses are typical inspections only and the finished product may vary from batch to batch.