TECHNICAL DATA SHEET

SYNTH HYDRO HFDU-46, 68 (Synthetic Fire Resistant Hydraulic Fluid)

(High performance synthetic fire-resistant Trixy lenyl phosphate ester hydraulic fluid)

DESCRIPTION

SYNTH HYDRO HFDU is a high performance synthetic fire-resistant hydraulic fluid, formulated from very high group VI base oil stocks polyol esters & Trixy lenyl Phosphate Ester incorporated with high performance additive packages to improve oxidation, stability, lubricity, corrosion & metal wear prevention with water free, coupled with a proven ashless. These fluids are developed to provide good performance in conventional hydraulic systems and exhibit better fire resistance than mineral oils. These oil are designed to minimize fluid degradation and thus extend fluid change out intervals under even the most severe operating conditions. These synthetic fire-resistant hydraulic fluid are readily biodegradable with low Eco toxicity compared to other petroleum products. Excellent viscosity control enables them to operate over a wide range of working temperatures. They provide very high anti-ware protection to the pump and its components. These fluids offer very good corrosion protection to the system components and are compatible with seal materials and paints normally specified for use in hydraulic systems with mineral oils except those made from natural rubber. It is specially recommended for use as fire resistant lubricant in steam and gas turbines.

FEATURES & BENEFITS

- **Excellent fire resistance with lower flammability than mineral oils - It is inherently fire-resistant, offering high flash point, high fire point and high auto-ignition temperature. It minimizes the risk of fire, which could potentially be caused by mineral oil products. It helps hydraulic systems to operate under very high operating temperatures where mineral oils cannot perform. Reduces the possibility of fire hazards and offers safe working environment.**
- **Outstanding Viscosity/Temperature Characteristics - excellent control over viscosity. Maintains viscosity under widely varying operating conditions and helps the equipment to perform to its design standards.**
- **Excellent Wear Protection - Enhanced oxidation, thermal stability, Corrosion protection, anti-wear performance, lower coefficient of friction & Low foaming.**
- **Biodegradability and Low Eco-toxicity - readily biodegradable and not harmful to the environment. Does not contaminate or pollute the ecosystem.**
- **Enhanced system protection - It offers excellent lubricity, for outstand pump life under the most severe conditions. The fluid meets or exceeds the pump performance of premium, anti-wear mineral oils. It provides high level of protection against wear and scuffing.**
- **Good hydrolytic stability & Increased System Reliability - Excellent shear stability by resisting thermal and break down, chemical will not break down and react with water of the fluid the risk of formation of harmful sludge and deposit is minimised. It's also maintains hydrolytic stability, minimizing fluid degradation and acid formation that can damage and eventually destroy hydraulic pumps. No acid removal/ion exchange filters are required.**
- **High resistance to sludge or varnish formation - It is formulated to provide high resistance against varnish and sludge formation. Field experience has shown long-term system cleanliness while extending maintenance intervals and service life. In addition, this fluid is very stable at high temperatures and resistant to thermal degradation up to 120°C.**
- **Suitable for all-weather service - A high viscosity index in combination with excellent low- temperature fluidity provide a year-round fluid that protects the machine from cavitation at cold start-ups and provides durability at higher operating temperature.**
- **Excellent Compability - It has compatibility with many different types of fluids, to ensure proper system performance commonly used conventional seal materials, hoses & metals with less maintenance and down time. It is recommended to properly clean and flush hydraulic systems during application.**

PERFORMACE STANDARD MEETS:

- **IS 6743/4**
- **ISO 12922(1)**

APPLICATION:

- **It can be used as the hydraulic fluid in Industrial and Construction hydraulic mobile equipment's, Piling Rigs, TBN (Tunnel Boring Machine), Excavators, Cranes hydrostatic drives, Electrohydraulic governor control systems of steam turbines, including systems with servo valves, Robotics, Hydraulic and power transmission systems including high-pressure systems subjected to a wide range of ambient & operating.**
- **Main bearings in steam and gas turbines, generators and cooling pumps.**
- **It is also recommended for hydraulic and fluid power transmission and control systems in very high temperature operating areas and other applications requiring fire resistant hydraulic fluids**
- **They are suitable for use in metal (steel), mining, power and glass industries. They can replace mineral hydraulic oils where good lubrication and protection against wear is required with higher resistance to fire hazards.**

PROPERTIES OF SYNTH HYDRO HFDU

ISO Viscosity Grade	46	68
Color	water white	
Specific Gravity 15.6 °C	0.910	0.915
Viscosity Cst @ 40°C	46.2	67.8
Viscosity Cst @100 °C	9.41	11.90
Viscosity Index,	193	184
Pour Point °C	- 45	- 42
Flash Point °C	310	314
Fire Point °C	350	344
Aniline Point °C	115	115
Air Release Value @50 °C , minutes	6	6
Acid Number, mg KOH/ g	0.05	0.07
Rust Preventive Characteristics	Pass	Pass
Foaming Characteristics/ Stability, m Sequence I Sequence II Sequence III	 10/NIL 10/NIL 10/NIL	 10/NIL 10/NIL 30/NIL
Fire Resistant Characteristics	Passes A, B & C	Passes A, B & C

Additional Information: **When converting to new oil kindly flush previous oil before filling, all previous lubricant should be removed as much as possible prior to operation. During initial operation, lubrication intervals should be monitored closely to ensure all previous lubricant is purged.**

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