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Product Data Sheet

Concord Bio-EF 46

Description and Applications

Saheli Concord Bio-EF 46 is an environmentally friendly fluid specially designed to provide optimum performance in hydraulic and circulation systems working in sensitive applications where there is a possibility of environmental damage due to accidental fluid spill or leakage. It is formulated with special biodegradable vegetable oils and carefully selected additives having low toxicity to meet the stringent requirements of biodegradability without sacrificing the performance requirements of users requiring such hydraulic oils. It possesses good anti-wear property, thermo-oxidative stability, foam control, rust and corrosion protection and water separation properties.

Features and Benefits

- Ready biodegradability and low-toxicity reduces potential for environmental damage in case of accidental spill or leakage.
- Superior load carrying capability and anti-wear property protect critical components against wear and prolong equipment life.
- Excellent oxidative stability reduces tendency to form sticky deposits and sludge normally associated with vegetable oils.
- Effective corrosion inhibitors protect internal components against corrosive wear.
- Compatible with all common construction metals and sealing materials used in hydraulic systems.

Applications

- Hydraulic systems working in environmentally sensitive areas where spills and leaks should have the least possible effect on environment.
- Unattended or outdoor equipments in forestry, agriculture, construction and mining and shipping industries requiring oils with ready biodegradability and low-toxicity.
- Hydraulic systems requiring Denison HF-6/HF-2 or ISO 15380 HETG quality oils.

Specifications

- ISO 15380 HETG
- Denison HF-6/HF-2

Test Parameters	Test Method	Typical
ISO VG		**46**
Density @ 15°C gm/cm3	ASTM D1298	0.917
Viscosity Index	ASTM D2270	191
Viscosity @ 40°C (cSt)	ASTM D 445	44.1
Pour Point °C	ASTM D 97	-24
Flash Point (COC) °C	ASTM D 92	>250
Rust Test	ASTM D 665A/B	Pass
Emulsion Test 30min max, @ 54°C	ASTM D 1401	Pass
FZG, fail load stage	DIN 51324	11

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