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Product Data Sheet

Concord HP

Description and Applications

Saheli Concord HP (High Performance Anti-wear Hydraulic oil) series are high performance anti-wear hydraulic oils developed for high pressure hydraulic systems operating under moderate to severe conditions in mobile and industrial service. These oils are formulated with high quality base oils and carefully selected performance additives to provide excellent protection against oxidation degradation, rust and corrosion and wear. They also possess superior foam control, water separation and rapid air release properties. These grades are formulated with field proven thermally stable zinc based anti-wear additive system.

Features and Benefits

- Excellent thermo-oxidative stability controls the formation of sludge and varnish and improves oil life.
- Exceptional anti-wear property results in longer pump and component life and reduces costs.
- Superior demulsibility helps in faster separation of water from oil and resists formation of emulsions.
- Special rust and corrosion inhibitors protect multi-metallurgy components even in presence of moisture.
- Rapid air release property minimizes chances of pump cavitations leading to trouble free operations.
- Compatible with multi-metals and sealing materials commonly used in hydraulic systems.

Applications

- Older hydraulic systems where leakage is a problem and a cost-effective hydraulic oil providing all-round protection is required.
- Hydraulic systems operating under moderate to severe conditions in mobile and industrial service.
- Mobile hydraulic fluid power transmission systems and general machine lubrication.

Specifications

- DIN 51524 Part 2-HLP
- ISO 11158 HM

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Test Parameters		Test Method	Typical Results						
ISO VG			10	15	22	32	46	68	100
Density @ 15°C gm/cm3		ASTM D1298	0.847	0.858	0.865	0.87	0.874	0.881	0.886
Viscosity Index		ASTM D2270	97	97	98	100	100	99	97
Viscosity @ 40°C (cSt)		ASTM D 445	10.1	15.1	22.2	31.2	45.9	68.3	98.3
Pour Point °C		ASTM D 97	-30	-24	-24	-21	-18	-15	-12
Flash Point (COC) °C		ASTM D 92	136	164	186	202	210	218	230
Turbine Oil Stability Test, hrs		ASTM D 943	2000+			2500+			2000+
Rust Test		ASTM D 665A/B	Pass	Pass	Pass	Pass	Pass	Pass	Pass
FZG, fail load stage, minimum		DIN 51354 Part II	-	-	-	11	11	11	11
Foam Test, foam after 10 min of settling for all sequences		ASTM D 892	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Emulsion Test 30 minutes max	@ 54°C	ASTM D 1401	Pass	Pass	Pass	Pass	Pass	Pass	-
	@ 82°C		-	-	-	-	-	-	Pass

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