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Product Data Sheet

Concord AW

Description and Applications

Saheli Concord AW 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.

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.

Applications

ISO VG 10 through VG 100

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

Specifications

- DIN 51524 Part 2-HLP
- AFNOR NFE 48-603 (HM), ISO 11158 HM
- Eaton (Vickers) M-2950-S, I-286-S
- Denison HF-0, HF-1, HF-2
- CM P-68, P-69, P-70

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Concord AW 10-100

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
Rust Test	ASTM D 665A/B	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Turbine Oil Stability Test (hrs)	ASTM D 943	2000+			2500+			2000+
Foam Test, foam after 10 min of settling for all sequences	ASTM D 892	Nil	Nil	Nil	Nil	Nil	Nil	Nil
FZG, Fail load stage, mini	ASTM DIN 51324	-	-	-	11	11	11	11

Concord AW 150-460

Test Parameters	Test Method	Typical Results			
ISO VG		150	220	320	460
Density @ 15°C gm/cm3	ASTM D1298	0.89	0.894	0.898	0.902
Viscosity Index	ASTM D2270	96	96	95	95
Viscosity @ 40°C (cSt)	ASTM D 445	148.9	221	321.1	467
Pour Point °C	ASTM D 97	-9	-6	-6	-3
Flash Point (COC) °C	ASTM D 92	246	256	266	280
Rust Test	ASTM D 665A/B	Pass	Pass	Pass	Pass
Turbine Oil Stability Test (hrs)	ASTM D 943	2000+	1000+		
Foam Test, foam after 10 min of settling for all sequences	ASTM D 892	Nil	Nil	Nil	Nil
FZG, Fail load stage, mini	ASTM DIN 51324	11	11	11	11

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