



INDUSTRIAL HYDRAULIC SP



DESCRIPTION

HYDRAULIC SP series are premium quality mineral oil-based hydraulic fluids of high Viscosity Index (VI). They are specially intended for hydraulic systems operating under widely varying temperatures, requiring a high level of anti-wear performance. They are formulated with good shear stability allowing their use in high-pressure/high-temperature conditions for extended periods of time. They surpass all the main international performance standards.

APPLICATIONS

The series is suitable for high-pressure (>1000psi) hydraulic systems in outdoor plants with wide temperature variations, and in cases of cold start-up conditions and high-temperature continuous running. They are highly recommended for hydraulic and circulation systems in industrial and marine machinery applications. They are suitable for precision machine tools and copying machines, where minimal viscosity change with temperature is crucial.

CHARACTERISTICS-BENEFITS

CHARACTERISTICS	BENEFITS
High viscosity index. Very good shear stability.	Minimal viscosity change with temperature, easy start-up at low temperatures.
Excellent performance in equipment protection.	Minimization of metal-to-metal contact, protecting the vane and the ring from the produced friction wear; reduction of maintenance cost.
High oxidation and hydrolytic stability; protection against rust and corrosion.	Longer service life than conventional lubricants; high cleanliness level.
Inhibits foam formation. Fast water separation.	Prevents rust problems via fast release of water; eliminates both foaming and aeration problems.
Improved filterability.	Prevents filter plugging.

PHYSICAL-CHEMICAL CHARACTERISTICS

HYDRAULIC SP	METHOD	ISO 15	ISO 32	ISO 46	ISO 68	ISO 100
Density at 15°C, g/cm ³	ASTM D1298	0,8540	0,8590	0,8610	0,8620	0,8630
Viscosity, Kinematic (cSt) 40°C	ASTM D445	15	32	46	68	100
Viscosity, Kinematic (cSt) 100°C	ASTM D445	3,9	6,5	8,1	10,9	14,5
Viscosity index	ASTM D2270	171	151	151	151	150
Flash point, COC, °C	ASTM D92	182	200	215	220	224
Pour point, °C	ASTM D97	-39	-33	-30	-27	-24
Foam, ml	ASTM D892	20/0	20/0	20/0	20/0	20/0
Emulsion test, min.	ASTM D1401	5	5	5	10	20
Copper corrosion	ASTM D130	1a	1a	1a	1a	1a

The above mentioned characteristics represent mean values.

SPECIFICATIONS

DIN 51524 Part 3 HVL P; ISO 6743-4 (ISO-L-HV); Parker (Denison) HF-0, HF-2; AFNOR NFE 48-603 HV; Vickers M-2950-S, I-286-S; Case IH Poclair



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