



PRODUCT DATA SHEET

GulfSea Hydraulic SHVI 15

Premium super high viscosity index hydraulic oil

Product Description

GulfSea Hydraulic SHVI 15 is a supreme quality anti-wear red-dyed hydraulic fluid specially developed for applications subjected to wide range of temperature or where small viscosity change with fluctuating temperature is needed. They are formulated with severely refined base oils, and an advanced additive system to meet the stringent requirements of modern hydraulic systems. Their outstanding thermo-oxidative stability and low & high temperature performance allows for extended service life. They provide excellent anti-wear property, rust & corrosion protection, water separation & air-release properties and hydrolytic stability to reduce breakdowns and help improve production capacity.

GulfSea Hydraulic SHVI 15 is intended for use in systems where an "ultra clean" fluid is required such as aircrafts and robotics and exceeds the performance requirements of MIL-PRF-5606H.

Features & Benefits

- Outstanding thermo-oxidative stability reduces deposit formation, improves pump & valve performance and allows extension of oil and filter change intervals.
- Extremely high viscosity index assures equipment protection at cold start-up temperatures and protects system components at high operating temperatures.
- "Ultra clean" and exceptional anti-wear property results in fewer breakdowns, longer pump life and reduced maintenance costs.
- Excellent shear stability minimises viscosity loss over time and exhibits "stay-in-grade" performance under high shear conditions.
- Excellent demulsibility helps in faster separation of water from oil and resists formation of emulsions
- Special rust & corrosion inhibitors protect multi-metallurgy components against negative effects of moisture presence in the system.
- Rapid air release property minimises chances of pump cavitation and thus prevents component damage, reduces vibration and maintains efficiency especially in modern hydraulic systems where sump sizes are becoming smaller.
- Offers long term hydrolytic stability in presence of water.

Applications

- Hydraulic and power transmission systems subjected to a wide range of ambient & operating temperatures.
- Applications requiring an "ultra clean" hydraulic fluid.
- Hydraulic systems of aircraft, boom trucks, and robotics subjected to most severe outdoor operating conditions.
- Hydraulic systems operating under high pressures and requiring high degree of load carrying capability and anti-wear protection.



PRODUCT DATA SHEET

Typical Properties

GulfSea Hydraulic SHVI		
		15
ISO Viscosity grades		15
Meets the following Specification		
MIL-PRF-5606H		
Joint Services Designation: OM-15		
NATO Code: H-515		
Typical Properties		
Test Parameters	ASTM Method	Test Values
Colour	Visual	Red
Viscosity @ 40°C, cSt	D 445	15.55
Viscosity @ 100°C, cSt	D 445	5.73
Viscosity @ -40°C, cSt	D 445	517
Viscosity @ -54°C, cSt	D 445	2209
Viscosity Index	D 2270	377
Flash Point, °C	D 93	96
Pour Point, °C	D 97	-63
Density @ 15°C, Kg/l	D 1298	0.873
Acid Number, mg KOH/g	D 664	0.01
Foam Test, foam after 10 minutes of settling for all sequences	D 892	Nil
4-Ball Wear, 75°C, 40 kg, 1200 rpm, 1 hour, mm	D 4172	0.60
Copper Corrosion, 135°C, 72 hours,	D 130	1B

August 2015