



marine lubricants

Clarity[®] Synthetic EA Hydraulic Oil 100



Description

Clarity[®] Synthetic EA Hydraulic Oil 100 is an ash free readily biodegradable high performance hydraulic oil that meets EPA Vessel General Permit (VGP 2013) requirements for environmentally acceptable lubricants. It is designed to give maximum protection in hydraulic equipment used on vessels and in environmentally sensitive areas.

Clarity Synthetic EA Hydraulic Oil 100 is designed to give maximum protection in hydraulic equipment used in vessels and in both mobile and stationary hydraulic pumps in high-performance industrial applications. It is formulated with synthetic base stock and an ashless, zinc-free additive system that can provide good oxidation stability, water separability, foam suppression, and protection against wear, rust and corrosion. Clarity Synthetic EA Hydraulic Oil 100 is a high VI synthetic product which allows for operation over a wide temperature range.

Typical Characteristics

MPID	219013
Viscosity, Kinematic cSt at 40°C	100.0
Viscosity, Kinematic cSt at 100°C	18.8
Viscosity Index	210
Flash Point, °C	193
Pour Point, °C	-48
Copper Corrosion	1b
Rust Test, Synthetic Sea Water	PASS
FZG, Fail Load Stage	12
Elastomer Compatibility	
Buton-N, Viton, Polyurethane	PASS
Biodegradability, OECD 301B, % in 28 days	>60
Aquatic Toxicity	
Fathead minnow, OECD 203, mg/L	>10.000
Daphnia magna, OECD 202, mg/L	>120
Algae, OECD 201, mg/L	>10.000
Bioaccumulation	Negative

Recommended Applications

Clarity Synthetic EA Hydraulic Oil 100 is designed to give maximum protection in hydraulic equipment used on vessels and in environmentally sensitive areas. This lubricant is readily biodegradable, non-bio accumulative, and minimally toxic. In the event of a spill, the product biodegrades by more than 60% within 28 days, minimizing the impact to the environment.

Clarity Synthetic EA Hydraulic Oil 100 Is Approved For:

SKF
 Wärtsilä

B&V
 Kobleco



marine lubricants

Clarity Synthetic EA Hydraulic Oil Is Recommended For Use In:

Blohm+Voss

HEPR in mobile and stationary hydraulic vane-piston gear-type pumps

Clarity® Synthetic EA Hydraulic Oil 100 is miscible with common mineral based hydraulic oils, however, following good practice, in-service oils should be completely drained to avoid any risk of additive incompatibility and ensure that the full performance benefits are achieved. Do not use in high pressure systems near flames, sparks, and hot surfaces. Use only in well ventilated areas. Keep container closed.

Performance Benefits

1. Environmentally Acceptable

Meets the requirements of the EPA Vessel General Permit (VGP 2013) for biodegradation, low toxicity and low bioaccumulation.

2. Zinc-Free

Suited for applications involving yellow metals found in axial piston pumps.

3. Long Oil Life

Good ability of the synthetic base stock to withstand oxidation at high operating temperatures can result in maximum service life for the oil relative to vegetable-based readily biodegradable products.

4. Low Temperature Pumpability

Specifically developed with high viscosity index to help ensure good fluidity for low operating temperatures.

5. Premium Performance

Ashless formulation helps to provide good protection against wear of hydraulic pumps, as well as rust and corrosion protection, hydrolytic stability, water separability, foam inhibition, and filterability.



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