



marine lubricants

Clarity[®] Synthetic EA Hydraulic Oil



Description

Clarity[®] Synthetic EA Hydraulic Oil is a readily biodegradable high performance hydraulic oil that meets EPA Vessel General Permit (VGP) requirements for environmentally acceptable lubricants. This lubricant is 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 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.

Clarity Synthetic EA Hydraulic Oil is formulated with synthetic base stock and an ashless, zinc-free additive system that provide oxidation stability, water separability, foam suppression, and helps protect against wear, rust and corrosion. It is a high VI synthetic product which allows for operation over a wide temperature range. Additionally, it is designed to the performance requirements of conventional anti-wear hydraulic oils, while providing an additional benefit in case of leaks or incidental discharge to the environment.

Typical Characteristics

ISO Viscosity Grade	100
MPID	219013
Kinematic viscosity at 40°C, mm ² /s	100
Kinematic viscosity at 100°C, mm ² /s	18.
Viscosity Index	210
Copper Corrosion	1B
Pour point, °C	-48
Flash point COC, °C	193
Rust Test, Synthetic Sea Water	PASS
FZG, Fail Load Stage Elastomer Compatibility	12
Buton-N, Viton, Polyurethane	PASS
Biodegradability, OECD 301B, % in 28 days Aquatic Toxicity	>60
Aquatic Toxicity	
Fathead minnow, OECD 203, mg/L	>10.000
Daphnia magna, OECD 202, mg/L	>120
TAN, mg KOH/g	0.33
Algae, OECD 201, mg/L	>10.000
Bioaccumulation	NEGATIVE

Recommended Applications

Clarity[®] Synthetic EA Hydraulic Oil is designed to protect hydraulic equipment used on vessels and in environmentally sensitive areas. It is used in hydraulic systems as recommended by ISO 15380, HEPR in mobile and stationary hydraulic vane, piston, and gear type pumps.



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Clarity Synthetic EA Hydraulic Oil ISO 100 Is Approved For:

 SKF

 Wärtsilä

 AEGIR

 Kobelco (KEMEL)

 IHC Lagersmitt

Performance Benefits

1. Friction Control

Specially tuned friction characteristics, ensuring smooth shifting and lock-ups.

2. Friction Durability

Strong friction durability, ensuring this performance is retained throughout the fluid lifetime.

3. High Viscosity Index

High Viscosity Index, meaning that the oil will retain sufficient viscosity for effective lubrication even at high operating temperatures.

4. Reliable Low Temperature Operation

Low-temperature fluidity, providing transmission protection during cold weather start-up.

5. Oxidation Stability

Good oxidation stability, preventing formation of harmful sludge, lacquer or deposits.

6. Seal Durability

Compatible with a wide variety of elastomer materials, preventing loss of fluid due to seal deterioration.

7. Corrosion Protection

Prevents corrosion of automatic transmission fluid coolers.



Disclaimer. Data provided in this PDS is based on standard tests under laboratory conditions and is indicative only. Minor variations which do not affect product performance are expected in normal manufacturing. This product should not be used for any purpose other than those expressly set out in this PDS. The user has sole responsibility for verifying that this product is suitable for the user's intended application. Recommendations differ between engine manufacturers so always consult your manual. Neither Chevron nor its subsidiaries make any warranty or representation as to the accuracy or completeness of this PDS and neither Chevron nor its subsidiaries accept liability for any loss or damage suffered as a result of the use of this product other than in accordance with the terms of this PDS. (March 2019)