



Clarity[®] Synthetic EA Gear Oil

High performance biodegradable EPA and VGP-compliant gear oil

Product description

Clarity Synthetic EA Gear Oil is a high performance synthetic biodegradable gear oil, formulated to meet Environmental Protection Agency (EPA) and Vessel General Permit (VGP) requirements for environmentally acceptable lubricants.

Clarity Synthetic EA Gear Oil is biodegradable with minimal toxicity when used in marine transport applications and other environmentally sensitive areas.

Clarity Synthetic EA Gear Oil is formulated with high performance synthetic base stock combined with ashless, zinc-free additives offering reliable oxidation stability, water separation, foam suppression, with robust wear, rust and corrosion resistance.

Clarity Synthetic EA Gear Oil offers a high viscosity index (VI), providing good operational performance across a wide temperature range.

Customer benefits

- Vegetable-based biodegradable oil meets EPA and VGP requirements for use in industrial, marine and other sensitive environments
- Ashless formulation promotes robust extreme pressure (EP) gear system wear protection, rust and corrosion resistance
- Offers reliable system protection through dependable water separation, foam inhibition and shear stability
- Synthetic base stock technology helps resist oxidation at high operating temperatures, offering optimum service life
- Specifically developed with a high VI to ensure good fluidity and pumpability at low operating temperatures

Product highlights

- **Meets EPA and VGP requirements**
- **Promotes wear, rust and corrosion resistance**
- **Offers water separation, foam inhibition and shear stability**
- **High operating temperature resistance**
- **Good low temperature pumpability**

Selected specification standards include:

Aegir	AGMA
Berg	Blom+Voss
Chesterton	Cincinnati Milacron
David Brown	DIN
IHC Merwede	James Walker
Kamewa	Kemel
Ortlinghaus	Schottel
U.S. Steel	Wärtsilä

Applications

- Clarity Synthetic EA Gear Oil is readily biodegradable, non-bioaccumulative, and minimally toxic. In the event of a spill, the product biodegrades by more than 60% within 28 days, minimising the impact to the environment
- Clarity Synthetic EA Gear Oils are designed to give optimum protection to industrial gear equipment in applications requiring a high performance gear oil and in environmental situations such as off-shore marine or oil and gas, construction in or near water, mining and power utility operations as well as other high performance industrial applications

Product maintenance and handling

- Clarity Synthetic EA Gear Oil is miscible with common mineral based gear 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 in the vicinity of flame, sparks, and hot surfaces. Use only in well ventilated areas. Keep container closed.

Approvals, performance and recommendations

Performance

- Aegir
- AGMA EP 9005-E02
- Berg
- Blom+Voss
- Chesterton
- Cincinnati Milacron P-76
- David Brown S1.53.101
- DIN 51517, Part 3
- IHC Merwede
- James Walker
- Kamewa
- Kemel
- Ortlinghaus
- Schottel
- U.S. Steel 224
- Wärtsilä

Typical test data		
Test	Test Methods	Results
Viscosity Grade		100
Shelf Life: 36 months from date of filling indicated on the product label		
Kinematic Viscosity at 40°C, mm ² /s	ASTM D445	100
Kinematic Viscosity at 100°C, mm ² /s	ASTM D445	18
VI	ISO 2909	199
Flash point, COC, °C	ISO 2592	185
Pour Point, °C	ISO 3016	-39

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

Disclaimer Chevron accepts no liability for any loss or damage suffered as a result of using this product for any application other than applications specifically stated in any Product Data Sheet's.

Health, safety, storage and environmental Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application and in accordance with the recommendations provided in the Material Safety Data Sheet (MSDS). MSDS's are available upon request through your local sales office, or via the Internet. This product should not be used for purposes other than its intended use. When disposing of used product, take care to protect the environment and follow local legislation.

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