



Clarity[®] Synthetic EA Hydraulic Oil

High performance biodegradable EPA and VGP-compliant hydraulic oil

Product description

Clarity Synthetic EA Hydraulic Oil is a high performance ash-free biodegradable hydraulic fluid designed to meet Environmental Protection Agency (EPA) Vessel General Permit (VGP) requirements for environmentally acceptable lubricants.

Designed for use in mobile and stationary hydraulic applications on marine transport and other environmentally sensitive areas, Clarity Synthetic EA Hydraulic Oil is readily biodegradable, non-bioaccumulative with minimal toxicity.

In the event of a spill, the product biodegrades by more than 60% within 28 days, helping to minimise environmental impact.

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

With a high viscosity index (VI), Clarity Synthetic EA Hydraulic Oil is designed to deliver high operational performance to hydraulic equipment and mobile or stationary pumps across a wide temperature range.

Customer benefits

- Meets the requirements of EPA and VGP, suitable for use in marine and sensitive environments
- Premium performance biodegradable synthetic technology with long service life
- Offers high performance equipment protection and reliability
- Wide temperature operating performance and pumpability
- Dependable, high performance ashless zinc-free additive technology

Product highlights

- **Meets EPA and VGP environmental requirements**
- **Biodegradable synthetic technology**
- **Offers high performance protection**
- **Wide temperature pumpability**
- **Ashless – zinc-free technology**

Selected specification standards include:

Blohm+Voss	ISO
Kemel Company	Wärtsilä

Applications

- Clarity Synthetic EA Hydraulic Oils are designed to give maximum protection in hydraulic equipment used onboard vessels and in environmentally sensitive areas
- These products can be used in hydraulic systems as recommended by ISO 15380, HEPR in mobile and stationary hydraulic vane-, piston-, and gear-type pumps

Approvals, performance and recommendations

Approvals

Clarity Synthetic EA Hydraulic Oil 100 is approved for Stern tube applications by:

- Blohm+Voss
- Kemel Company
- Wärtsilä

Performance

- ISO 15380 HEPR

Product maintenance and handling

- Always confirm that the product selected is consistent with the original equipment manufacturers' recommendation for the equipment operating conditions and customer's maintenance practices
- Clarity Synthetic EA Hydraulic Oils are 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 in the vicinity of flame, sparks, or hot surfaces. Use only in well ventilated areas
- Keep container closed

Typical test data		
Test	Test Methods	Results
Viscosity Grade		100
Shelf Life: 36 months from date of filling indicated on the product label		
Density at 15°C, kg/l	ISO 12185	0.86
Appearance at 25°C	visual	Br&Cl
Kinematic viscosity at 40°C, mm ² /s	ASTM D445	100
Kinematic viscosity at 100°C, mm ² /s	ASTM D445	15.9
VI	ASTM D2270	170
Pour Point, °C	ASTM D5950	-48
Flash Point COC, °C	ASTM D92	193

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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