

## ChevronTexaco Clarity® ISO 46 Hydraulic Oil AW

Category : Fluid , Lubricant

**Material Notes:**

Features Chevron Clarity Hydraulic Oils AW are designed to give maximum protection to hydraulic pumps in high performance industrial applications as well as in environmentally sensitive areas. They are formulated with ISOSYN® base stocks and an ashless ("zinc-free") additive system that provides superior oxidation stability, water separability, foam suppression, and protection against wear, rust and corrosion. They are designed to meet or exceed the performance requirements of conventional antiwear hydraulic oils, especially in severe, high-output applications such as axial piston pumps, while providing an additional level of safety in case of leaks or incidental discharge to the environment. Chevron Clarity Hydraulic Oils AW are long-life lubricants, with longer TOST (oxidation stability) lives than conventional hydraulic fluids. A longer TOST life equates to longer service life, which improves the customer's bottom line. This level of oxidation stability is especially applicable in high efficiency (high speed, high temperature, high output) applications where severe stress is placed on the hydraulic fluid. Many hydraulic systems are required to operate in environmentally sensitive areas where leaks or spills of hydraulic fluid may result in contamination of the soil or nearby waterways. Conventional antiwear hydraulic oils are formulated with metal-containing performance additives which will persist in the environment in the event of leaks. Vegetable-based hydraulic oils meet the environmental requirements, but fall short of the performance requirements. Applications Chevron Clarity Hydraulic Oils AW are designed for use in mobile and stationary hydraulic vane-, piston, and gear-type pumps. The antiwear performance of these oils makes them especially suited for high performance industrial applications utilizing axial piston pumps where pressures may exceed 5000 psi. The zinc-free formula makes it perfectly suited for applications involving yellow metals found in axial piston pumps. They are well suited for applications situated in environmentally sensitive areas. Chevron Clarity Hydraulic Oils AW have shown excellent performance in applications involving servovalves using multimetal components. The ashless formulation of Chevron Clarity Hydraulic Oils AW passes the acute aquatic toxicity (LC-50) criteria adopted by the U.S. Fish and Wildlife Service and the U.S. Environmental Protection Agency. Chevron Clarity Hydraulic Oils AW meet the requirements of: Denison HF-0, HF-2 Cincinnati Machine P 68 (ISO 32), P-70 (ISO 46), P 69 (ISO 68) Vickers for use in M-2950-S (mobile) and I-286-S (stationary) hydraulic systems. Passes Vickers 35VQ25 pump test. Chevron Clarity Hydraulic Oils AW is registered with NSF and is acceptable as a lubricant where there is no possibility of food contact (H2) in and around food processing areas. The NSF Nonfood Compounds Registration Program is a continuation of the USDA product approval and listing program, which is based on meeting regulatory requirements of appropriate use, ingredient review and labeling verification. Do not use in high pressure systems in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ChevronTexaco-Clarity-ISO-46-Hydraulic-Oil-AW.php](http://www.lookpolymers.com/polymer_ChevronTexaco-Clarity-ISO-46-Hydraulic-Oil-AW.php)

Physical Properties	Metric	English	Comments
API Gravity	31.9 °	31.9 °	
Viscosity Measurement	101	101	Viscosity Index; ASTM D2270
Saybolt Viscosity at 100°F	237 SUS	237 SUS	
Saybolt Viscosity at 210°F	49 SUS	49 SUS	
Kinematic Viscosity at 40°C (104°F)	46 cSt	46 cSt	ASTM D445
Kinematic Viscosity at 100°C (212°F)			ASTM D445

Physical Properties	Metric	English	Comments
Oxidative Stability	>= 18000 hour	>= 18000 hour	Hours to 2.0 mg KOH/g acid number; ASTM D943

Thermal Properties	Metric	English	Comments
Pour Point	-30.0 °C	-22.0 °F	ASTM D97
Flash Point	224 °C	435 °F	ASTM D92

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