



ATLANTIC HYDRAULIC OIL AW 46

(Very High Performance Anti-Wear Hydraulic Oils)

DESCRIPTION

ATLANTIC HYDRAULIC OIL AW 46 is supreme performance anti-wear hydraulic oils designed to satisfy a wide range of hydraulic equipment requirements. They were developed to meet the stringent requirements of severe hydraulic systems using high pressure, high output pumps as well as handling the critical requirements of other hydraulic system components such as close clearance servo-valves and the high accuracy numerically controlled (NC) machine tools. Formulated with high quality base oils and a super-stabilized additive system that neutralizes the formation of corrosive materials & designed to work with systems operating under severe conditions where high levels of antiwear and film strength protection are needed, yet they are formulated to work where non-antiwear hydraulic oils are generally recommended.

APPLICATIONS

ATLANTIC HYDRAULIC OIL AW 46 is designed to give excellent protection in mobile and stationary hydraulic vane-, piston-, and gear-type pumps and in high-performance industrial applications as well as in environmentally sensitive areas. Suitable for use in all kind of hydraulic systems running under the most difficult conditions, such as in machine tools, mould injection machines, presses and other industrial or mobile equipment. Also used in many other applications, where a universal high performance anti-wear lubricant is the first choice: low charged gears, sliding and roller bearings, air compressors, servo-motors and control systems equipped with fine filtration systems.

Properties

ATLANTIC HYDRAULIC OIL AW 46 provides outstanding oxidation resistance allowing extension of oil and filter change intervals. Their high level of anti-wear properties and excellent film strength characteristics result in exceptional equipment performance that not only results in fewer breakdowns but helps improve production capacity. Their controlled demulsibility permits the oils to work well in systems contaminated with small amounts of water yet readily separate large amounts of water.

Product Benefits

- High protection against wear insuring maximum equipment life.
- Superior thermal stability avoiding formation of sludge even at high temperature.
- Very good oxidation stability ensuring a long service life of the fluid
- Quality reserve maintains performance features even under severe service conditions and extended drain intervals
- Excellent hydrolytic stability avoiding filter blocking.
- Excellent protection against rust and corrosion.
- Good anti-foam and air release properties by using silicon free components.
- Good demulsibility ensuring rapid water separation
- Reduced maintenance and operating costs
- Remarkable filterability even in the presence of water

Recommendations / Specifications

International Standards : AFNOR NF E 48-603 HM, ISO 6743/4 HM, DIN 51524 P2 HLP, CINCINNATI MILACRON P68, P69, P70

Meets or exceeds : VICKERS M-2950S, -I-286, DENISON HF0, HF1, HF2 (T6H20C), HUSKY HS 207

TYPICAL TECHNICAL PROPERTIES

ISO Viscosity Grade	46
Product code	12663HF
Appearance, Visual	B&C
Density at 15 ⁰ C, g/ml, ASTM D4052	0.880
Kinematic Viscosity at 40 ⁰ C, mm ² /s, ASTM D445	46
Kinematic Viscosity at 100 ⁰ C, mm ² /s, ASTM D445	6.61
Viscosity Index, ASTM D2270	96
Flash Point(COC), °C, ASTM D92	232
Pour Point, °C, ASTM D97	-27
FZG 4-Square Load Support, DIN 51354, Fail Stage	12
Copper strip corrosion, 3 hrs @ 100 ⁰ C, ASTM D130	1B
Rust protection Proc B, ASTM D665	PASS

Note: These characteristics are typical of current production. While future production will conform to Atlantic's specification, variations in these characteristics may occur.

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* supersedes all previous versions

Health and Safety: Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contact office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing off used product, take care to protect the environment.