

LAUNCHER HYDRAULIC OIL

HIGH POWER & PERFORMANCE ANTI-WEAR HYDRAULIC OILS

LAUNCHER Hydraulic Oils are 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 and 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

LAUNCHER Hydraulic Oils Anti Wear are designed to give excellent protection in mobile and stationary hydraulic vane-, piston-, 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 & 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.

PERFORMANCE FEATURES AND BENEFITS

- Superior thermal stability avoiding formation of sludge even at high temperature.
- High protection against wear insuring maximum equipment life.
- Quality reserve maintains performance features even under severe service conditions and extended drain intervals
- Very good oxidation stability ensuring a long service life of the fluid

PROPERTIES

LAUNCHER Hydraulic Oils Anti Wear series provide 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.

- Excellent protection against rust and corrosion.
- Excellent hydrolytic stability avoiding filter blocking.
- Good demulsibility ensuring rapid water separation.
- Good anti-foam and air release properties by using silicon free components.
- Remarkable filterability even in the presence of water.
- Reduced maintenance and operating costs.

RECOMMENDATIONS / SPECIFICATIONS

MEETS OR EXCEEDS:

VICKERS M-2950S, -I-286, DENISON HF0, HF1,HF2 (T6H20C), HUSKY HS 207 AFNOR NF E 48-603 HM, ISO 6743/4 HM, DIN 51524 P2 HLP, CINCINNATI MILACRON P68, P69, P70

TYPICAL TECHNICAL PROPERTIES

Viscosity Grade	10	22	32	46	68	100	150
PRODUCT CODE	LMO10HA	LMO22HA	LMO32HA	LMO46HA	LMO68HA	LMO100HA	LMO150HA
Appearance, Visual	B&C	B&C	B&C	B&C	B&C	B&C	B&C
Density at 15°C, g/ml, ASTM D4052	0.846	0.866	0.875	0.880	0.884	0.888	0.892
Kinematic Viscosity at 40°C, mm ² /s, ASTM D445	10	22	32	46	68	100	150
Kinematic Viscosity at 100°C, mm ² /s, ASTM D445	2.68	4.34	5.42	6.79	8.77	11.42	14.79
Viscosity Index, ASTM D2270	100	102	102	100	100	100	97
Flash Point (COC), °C, ASTM D92	170	222	228	232	242	254	268
Pour Point, °C, ASTM D97	-33	-30	-27	-27	-21	-18	-18
FZG 4-Square Load Support, DIN 51354, Fail Stage			12	12	12	12	12
Copper strip corrosion, 3 hrs @ 100°C, ASTM D130	1B	1B	1B	1B	1B	1B	1B
Rust protection Proc B, ASTM D665	PASS	PASS	PASS	PASS	PASS	PASS	PASS

 $Note: These \ characteristics \ are \ typical \ of \ current \ production. While \ future \ production \ will \ conform \ to \ LAUNCHER'S \ specification, \ variations \ in \ these \ characteristics \ may \ occur.$







Packing: 4L | 5L | 20L /pail | 25L/pail | 208L/Drum

Version: LL/TDS/HOAW/V1/02-01-2023

Health and Safety: This lubricant, when used in accordance with our recommendations and for the application for which it is intended, does not constitute any special hazard. A safety data file conforming to the requirements of current EC legislation is available from your local trade consultant