

Universal Co-Op Lubricants

Hydraulic Oil Premium Anti-Wear

Product Information Sheet

Description:

Universal Premium Anti-wear Hydraulic Oil is a top quality low-zinc antiwear hydraulic oil designed for use in hydraulic systems ranging from simple to the latest in high technology and high performance.

This line of hydraulic oil is blended with high quality base oils having excellent stability and quality, balanced additive system that provides oxidation, thermal stability, antirust, demulsibility, antiwear, and antifoam characteristics. The zinc type antiwear agent used these oils helps minimize wear in high speed, high pressure, vane and gear pumps while meeting the lubrication requirements of the axial piston pumps having bronze and steel metallurgy. These products possess outstanding performance qualities, demonstrating increased pump and fluid life, and are superior to non-detergent engine oils in heavy-duty industrial hydraulic systems, especially in the presence of water. This product is highly stable under thermal or oxidative stress and is exceptionally stable when in the presence of moisture, showing little tendency to hydrolyze and attack copper.

Our MV (multi-viscosity) line is formulated with exceptional cold temperature properties that exhibit multigrade performance. A very shear stable viscosity index improver is used to impart a high viscosity index, enabling maximum performance over a wide range of start-up and operating temperatures, while reducing viscosity shear down. MV 32, MV 46 and MV 68 also have very good dielectric properties and can be used in hydraulic systems that must be electrical non-conductors.

Features & Benefits:

- Excellent vane and piston pump performance with low copper activity, providing extended pump life.
- Provides excellent oxidation and thermal stability for longer drain intervals.
- Reduced maintenance due to outstanding rust prevention capabilities.
- Superior hydrolytic stability with quick water separation providing good demulsibility and protection against filter plugging.
- Special antifoam agent assures the proper functioning of the system.
- MV 32, MV 46 and MV 68 perform as multigrades, with a wider temperature range for start-up and operation.

Application:

Universal Premium Anti-Wear Hydraulic Oils are recommended for the most severe operating pressure applications and exceed the following manufacturers' performance levels:

- Abex Denison HF-1, HF-2, HF-0
- Cincinnati Milacron P-68, P-69, P-70
- Racine variable volume vane pumps
- Vickers I-286-S, M-2950-S (35VQ25)
- U.S. Steel 136, 127
- DIN 51524, Part 2
- **ASTM D-943 Oxidation Test: Exceeds 2000 Hours**
- ASTM D-665 Rust Test: Pass

Health & Safety:

A complete Material Safety Data Sheet is available upon request. Used oil contains by-products, which may be harmful. Avoid prolonged or repeated skin contact. Wash clothing and exposed areas with soap and water. Don't pollute - return used oil to a collection center.

Typical Properties:

	MV 32	MV 46	MV 68	22	32	46	68	100	150
Approximate SAE Grade	5W-20	10W-20	10W-30	(5W)	(10W)	(20W)	(20)	(30)	(40)
Viscosity @ 100°C, cSt	6.50	7.60	10.7	4.14	5.18	6.70	8.56	11.1	15.0
SUS	48.7	49.8	61.7	39.9	43.3	48.1	54.3	63.1	77.9
@ 40°C, cSt	33.0	46.5	67.1	20.7	30.2	45.3	66.0	96.3	149
SUS	158	223	311	101	142	211	306	446	690
Viscosity Index	150	130	150	100	100	100	100	100	100
Pour Point, °F	-50	-35	-25	-40	-25	-20	-20	-10	-20
API Gravity	32.3	30.6	28.7	32.5	30.5	29.6	29.0	28.5	28.3
Flash Point, °F	380	430	465	400	405	410	440	445	440

The typical properties listed reflect the general characteristics of the product, and are not manufacturing specifications. Normal batch-to-batch variations should be expected.