



## Product Information Sheet

### **ALL SEASON MV HYDRAULIC OIL** **PREMIUM MV HYDRAULIC OIL**

All Season MV 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.

The All Season MV Hydraulic oil 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 also has 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, performs as multigrade, with a wider temperature range for start-up and operation.



**Application:**

All Season MV Hydraulic oil is recommended for the most severe operating pressure applications and exceeds the following manufacturers' performance levels:

- Abex Denison HF-1, HF-2, HF-0
- Cincinnati Milacron P-70
- Racine variable volume vane pumps
- Vickers I-286-S, M-2950-S (35VQ25)
- U.S. Steel 136, 127, 126
- DIN 51524, Part 2
- ASTM D-943 Oxidation Test: Exceeds 6000+ 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
Approximate SAE Grade	5W-20
Viscosity @ 100°C, cSt	6.20
SUS	46.5
@ 40°C, cSt	33.1
SUS	156
Viscosity Index	140
Pour Point, °F	-50
API Gravity	32.8
Flash Point, °F	400

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