

# HYDRAULIC AW 20K OILS

## HIGH PRESSURE EP HYDRAULIC OIL

### Description

Hydraulic AW 20K Oils are superior quality anti-wear hydraulic oils formulated for extended service from the finest high quality base stocks and are further fortified with high performance additives to enhance their capability. Engineered with a superior additive package, they are designed for greater performance in reciprocating compressors subjected to sour, wet, and high-pressure gasses. They are recommended for use in high pressure hydraulic systems which utilize vane, piston or gear pumps in addition are rust and oxidation (R&O) inhibited oils providing excellent performance in hydraulic systems, compressors applications where long lubricant service life is required and other applications where a high quality anti-wear type oil is required. Their superior oxidation resistance enables extended oil drain intervals, with significantly reduced sludge, varnish and carbon deposits on internal parts, pumps, and other internal components.

Hydraulic AW 20K Oils considerably reduce the necessity of cleaning and other maintenance, provide excellent protection against wear, as well as increase productivity and provide excellent filtration characteristics. They have excellent demulsification ability to prevent water from deteriorating internal components.

Hydraulic AW 20K Oils meet the performance requirements of Hagglunds-Denison, Trinova Vickers, Cincinnati Milacron, Lee Norse, Jeffery and others.

### Features & Benefits

- Superior additive package with excellent anti-wear protection.
- High performance additive system with anti-oxidant, anti-foam agents, rust and corrosion inhibitors.
- Excellent protection against fluid deterioration with high base oil and additive performance.
- High resistance to foaming and excellent air release.
- Protects metal surfaces from the damaging effects of entrained water
- Protects against the corrosive effects of hydrogen-sulfide and other sour gas components
- Allows quick release of entrained gasses
- Provides superior protection against varnishing, rust, and excessive wear while extending equipment life and lowering maintenance costs.
- Less maintenance and longer life of equipment and lower repair costs.
- Prevents pump cavitations, noisy and erratic operation providing more efficient operation.

### Health & Safety

See the most recent MSDS which is available directly from Precision Fluids, your local salesman, or authorized distributor. Precision Fluids uses only raw materials not listed as carcinogenic by IRAC.

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### Application

Hydraulic 20K Oils meet or exceed most pump manufacturer's specifications and may be used as a premium hydraulic fluid, compressor oil, and other applications as recommended where superior performance of an anti-wear/rust and oxidation performance type fluid may be needed. These high performance hydraulic and circulating lubricants are designed for applications where long lubricant service life is required. They are also recommended for use in other applications which require a long life premium anti-wear fluid such as in turbines, pumps, machine tools, gear drives, circulating oil systems, oil mist systems, etc.

#### **Specific applications include:**

- Land-based and marine steam turbine, hydro turbine and some gas turbine circulation systems, including pumps, valves and other ancillary equipment requiring anti-wear additives
- Continuous service in plain and roller bearings and parallel shaft gearing
- Turbines with oil supplied by splash, bath, ring oiling or other mechanical means

### Typical Properties

ISO Grade	32	46	68	Test Method
API	32.87	31.97	3108	
Specific Gravity	0.86086	0.86563	0.87032	ASTM 4052
Lbs/Gal	7.169	7.209	7.248	
Density	0.86038	0.86514	0.8698	
Flash Point °C	206	217	227	ASTM D92
Pour Point °C	-27	-24	-24	ASTM D97
Color	<1.0	<1.0	<1.0	ASTM D1500
Viscosity@100°C cSt	5.692	7.155	9.111	ASTM D445
Viscosity@40°C cSt	33.53	47.97	70	ASTM D445
Viscosity Index (VI)	109	108	104	ASTM D2270
TOST Hours	20,000	20,000	20,000	

*Typical Properties are typical of those obtained with normal production tolerance and do not constitute essentially a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice.*

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