

America's Choice



Typical Properties Low-Temp Antiwear Hydraulic Oils

America's Choice HYDRAULIC OIL AW-LT IS SPECIFICALLY FORMULATED TO MEET THE REQUIREMENTS OF AN ANTI-WEAR HYDRAULIC OIL OVER A WIDE OPERATING TEMPERATURE RANGE. RECOMMENDED FOR USE IN EQUIPMENT REQUIRING START-UPS AT LOW AMBIENT TEMPERATURES.

PERFORMANCE FEATURES

- Contains an exceptionally shear stable viscosity index improver developed specifically for use in high shear hydraulic pumps. This minimizes fluid thinning to provide a reduction in wear.
- Contains anti-wear additive systems meeting the wear requirements of the major pump builders, including Cincinnati Milacron, Denison, Vickers, Sperry Vickers and others.
- Contains anti-rust and anti-oxidant ingredients for longer fluid life and overall system protection.
- Contains flow improvers to enhance low temperature fluidity, for better flow during low temperature start-ups.
- Contains an anti-foamant to control the release of entrained air, to reduce foaming tendencies.
- Demonstrates non-corrosive tendencies toward bronze and steel.
- Meets the sludge and acidity limits of the major pump manufacturers.
- Provides excellent demulsibility for water
- Compatible with common filter media.

APPLICATIONS:

- Hydraulic Oil AW-LT is primarily recommended for hydraulic systems encountering low temperature start-ups. Select the proper grade providing the best compromise of low temperature start-ups and operating temperature conditions. Refer to *Typical Properties* table below for the recommended operating range by grade. (Full-load low temperature start-up limit is based on the oil temperature at which the oil viscosity is 1000cP maximum; this can be extended to 9000 cP if a part-load warmup procedure is used. The high temperature limit is based on the operating bulk oil temperature at which the oil viscosity is 13.0 cSt minimum).
- Also recommended for other low temperature start-ups industrial lubrication requirements including air compressors, speed reducers, circulating systems, oil lubricators, electric motor bearings, air line lubrication etc.

TYPICAL PROPERTIES

ISO GRADE	AW 22LT	AW 32LT	AW 46LT
Density, kg/m @ 15°C	.865	.868	.870
Kinematic Viscosity (D445)	-	-	-
cSt @ 40°C	22	32	46
cSt @ 100°C	4.9	6.5	8.4
Brookfield Viscosity (D2983)	-	-	-
1000cP, temperature °C	-19	-15	-10
9000cP, temperature °C	-36	-33	-29
Viscosity Index (D2270)	140	160	160
Flash Point (COC), °C	180	190	190
Pour Point, °C	-48	-45	-42
Color (ASTM)	1.0	1.0	2.0
Copper Corrosion (D130)	1	1	1
Fluid Operating Range, °C	-	-	-
For Full-Load Start-Up	-19 to +57	-15 to +69	-10 to +80
With Part-Load Warmup	-36 to +57	-33 to +69	-29 to +80

Note: The values shown are representative of current production and may vary within modest ranges

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