

Premium AW Hydraulic Fluid

Hartland Premium AW Hydraulic Oils are premium multi-grade high viscosity index anti-wear hydraulic oils developed to meet the requirements of modern hydraulic systems which operate at low or widely varying ambient temperatures. They are formulated with high quality base stocks to provide stability over a wide range of temperature. They contain specially selected anti-wear agents, rust and oxidation inhibitors, corrosion protection, rapid entrained air release, and anti-foamants for long life service up to **8,000 hours**.

Hartland Premium AW 32, 46, & 68 are premium anti-wear hydraulic fluids with outstanding low temperature characteristics. They are specially formulated for use in mobile equipment hydraulic circuit where wide temperature ranges are encountered. (Cherry pickers, bucket trucks and marine hydraulics).

Hartland Premium AW Hydraulic AW 100 & 150

oil also can be used for traditional in-plant hydraulic applications, and exceeds most industry hydraulic fluid specifications, including: Denison HF-2, HF-0 Commercial Shearing, Vickers, Sunstrand, Rexnord, Bosch-Rexworth, Volvo, Caterpillar, Hitachi, Komatsu, Parker Hannafin, and Cincinnati Milacron.

Hartland Premium AW Hydraulic Oils may be recommended for applications when a premium quality, anti-wear hydraulic oil is required by equipment manufacturers. The oils meet the rigorous performance requirements including Denison HF-O and HF-2, Cincinnati Milacron P-68, P-69, and P-70, Vickers M-2950-S and 1-286-S, DIN 51524 (Part II, III), ANSI 9005-E02-RO, ASTM D6158, GM LS-2, and US Steel 126,127. Passes Vickers 35VQ25 Pump Test.

Hartland Premium AW Hydraulic Oil provides excellent vane pump wear and protection. Extremely low pump part weight losses were encountered in the ASTM-D-2882 Vane Pump Wear Tests. Piston pump performance is also outstanding. No evidence of wear or distress was observed at the end of the 100.

Hartland Premium AW Hydraulic Oil fluids are compatible with most other mineral oil based hydraulic fluids. However mineral oil-based fluids should never be mixed with specialty type fluids such as fire-resistant or other environmentally acceptable fluids.

SAE GRADE	32	46	68	100
Product Code	139	140	141	142
Viscosity @ 40°C, cSt	32.0	46.0	66.0	98.0
Viscosity @ 100°C, cSt	6.0	7.85	10.12	12.75
Viscosity Index	136	140	138	125
Flash Point: °F	350	390	390	405
Pour Point: °F	-44	-40	-33	-24
Low Temperature Pumpability	Pass	Pass	Pass	Pass
Dielectric, min. KV	+35	+35	+35	+35
Rust Test	Pass	Pass	Pass	Pass

Results are typical characteristics; small variations may occur during normal operations.