



Super S[®] SuperDraulic AW Hydraulic Fluid

Super S SuperDraulic AW Hydraulic Fluids are premium multi-grade high viscosity index anti-wear hydraulic oils formulated to meet the demands of modern hydraulic systems operating at low or widely varying temperature ranges. The combination of high VI base stocks and a carefully balanced additive system chosen to provide excellent trouble free, extended drain protection up for **8,000 hrs** in well maintained systems.

Super S SuperDraulic AW Hydraulic Fluids exceeds the performance standards for use in most modern high pressure hydraulic systems operating across a wide temperature range. They contain a synergistic combination of antioxidant and rust and oxidation (R&O) inhibitors that stabilize the system providing extended drain service effectively reducing maintenance costs.

Super S SuperDraulic AW Hydraulic Fluids demonstrate excellent thermal stability for protection against oil degradation and deposit formation leading to a cleaner, more efficient operating environment. They are also easily filtered even in the presence of water showing excellent demulsability. The highly shear stable viscosity modifier offers multi-grade performance in low temperatures making it an excellent general lubricant and a suitable service fill for most equipment calling for a HVI AW hydraulic fluid.

RECOMMENDATIONS/SPECIFICATIONS

ASTM 6158

Fives Cincinnati P-68, P-69, P-70

Denison HF-0, HF-1 and HF-2

Sperry Vickers M2950-S and I-286-S

DIN 51524-3, ISO 11158HM

DIN

51506VDL

GM LS-2

US Steel 126-127-136

Eaton Brochure 03-401-2010

Swedish Standard SS 15 54 34, SMR 1996-2

Siemens TLV 9013

US MIL-PRF-17331J

Volvo WB101 (VCE 97303)

FEATURES/ BENEFITS

- **Super S SuperDraulic AW Hydraulic Fluids** are available:
- viscosity grades from ISO VG 15 to ISO VG 220
- >8000 hr on ASTM D-943
- Exceptional anti-wear protection for equipment operating under high pressures and loads
- Oxidation inhibitors provide sludge and deposit control, and longer service life
- Superior Rust and corrosion protection for all system components.
- Excellent water separation and demulsibility
- Excellent anti foam and rapid air release

APPLICATIONS

- **Super S SuperDraulic AW Hydraulic Fluids** are recommended for applications calling for anti wear, rust and oxidation inhibited oils
- Hydraulic systems
- Air compressors
- Industrial bearings,
- Circulating systems, splash, bath and ring lube systems for bearings and gears
- A myriad of assorted industrial applications: chains, hoists, machine tools et al
- Gear sets not requiring an EP gear oil
- Bath, Splash Circulating or Mist systems
- AW 15 and 22 are manufactured from specially selected, highly refined, low pour point base stocks and include a pour point depressant for operation in unusually cold conditions. The low pour point minimizes filter plugging in the absence of synthetics
- AW 32 , 46, & 68 are premium anti- wear hydraulic fluids with outstanding low temperature characteristics and meet Fives P-68, 69, & 70 respectively. They are specially formulated for use in mobile equipment hydraulic circuits where wide temperature ranges are encountered. (Cherry pickers, bucket trucks and marine hydraulics).

Special handling, notices or warnings

Use the same care and handling as for any petroleum product.



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TECHNICAL PRODUCT INFORMATION

Typical Characteristics

Super S SuperDraulic AW Hydraulic Fluid									
Property	Test Method ASTM - D	ISO Viscosity Grades							
		15	22	32	46	68	100	150	220
AGMA Grade					1	2	3	4	5
Pour Point, °C/°F	97	-48/-54	-42/-43.6	-37/-35	-37/-35	-37/-35	-35/-31	-33/-27	-33/-27
Flash Point °C/°F	92	200/392	202/396	204/400	207/405	232/450	241/465	250/482	256/493
cSt @ 40°C	445	16.4	23.7	31.5	47.8	66	100	148.5	217.6
cSt @ 100°C	445	2.7	4.8	5.3	7.0	8.4	11.0	19.0	25.11
Viscosity Index	2270	120-150	120-150	120-150	120-150	120-150	125-145	125-150	130-165
Color	1500	L1.0	L1.0	L1.0	L1.0	L1.5	L1.5	L1.5	L1.5
Oxidation Life Hrs to 2.0 Acid No.	943	8000	8000	8000	8000	8000	8000	8000	8000

Typical test data are average values only.
 Minor variations which do not affect product performance are to be expected during normal manufacturing.