MYSTIK® AW/AL HYDRAULIC OILS

Date 01/10

DESCRIPTION:

These are premium quality antiwear, antileak, and antifoam hydraulic oils formulated for use in modern high and low pressure industrial and mobile hydraulic systems. They meet the toughest requirements of most manufacturers and are dyed green for ease of identification from other petroleum products. They have 100% paraffinic high VI base oils with low pour points, for wide temperature usage and additionally are treated with antioxidant stabilizers for long life and antirust protective additive. A fully synthetic seal swell agent prevents and stops minor leaks and provides longer seal life. They may also be used as (inhibited) non-detergent motor oils, and for API gear lubricant service's GL-1, where their viscosity is suitable. They have a variety of applications where general purpose non-detergent type oils or rust and oxidation (R&O) inhibited turbine oils are applicable. The High Viscosity Index (HVI) products are for wide temperature application and have a typical dielectric strength of 35kV which makes them suitable for use as non conductive hydraulic fluids. HVI-32 and HVI-46 meet FMC Corporation recommendations for a high viscosity index hydraulic fluid.

FEATURES:

- Cincinnati Lamb (formerly Cincinnati Machine) approved:
  - P-68 - Mystik AW/AL Hydraulic Oil ISO 32
  - P-69 - Mystik AW/AL Hydraulic Oil ISO 68
  - P-70 - Mystik AW/AL Hydraulic Oil ISO 46
- Denison HF-0
- Eaton M-2950-S and I-286-S performance
- Premium quality antiwear, antileak, and antifoam hydraulic oils
- High viscosity indexes and low pour points for wide temperature usage
- Excellent oxidation resistance and thermal stability
- Manufactured from high quality, solvent refined paraffinic base stocks
- Good water separation characteristics
- Outstanding rust and corrosion inhibition for enhanced service life
- Dyed green for ease of identification
- Highly recommended for:
  - bearings and gears which require an R&O or R&O/AW hydraulic oil.
  - hydraulic circuit components (valves, motors, servos, pumps, etc.)
  - applications where general non-detergent type oils are applicable
  - vacuum pumps
  - non conductive hydraulic fluid

NOTE: HVI-32 and HVI-46 are guaranteed to have a dielectric strength of no less than 28 kV when packaged. Dielectric strength is extremely sensitive to humidity and contamination. Once the containers are opened, the dielectric strength cannot be expected to remain at its original value. Containers should be kept tightly sealed and stored in a dry environment.

(Continued)

M Y S T I K® A W / A L H Y D R A U L I C O I L S

Mystik LUBRICANTS

Date 01/10 - (Continued)

TYPICAL PROPERTIES:

MYSTIK® AW/AL HYDRAULIC OILS

Material Code	663303002	663304002	663305002	663306002	663312002	663313002	663314002	663315002
Designation					HVI-32	HVI-46	HVI-68	HVI-100
ISO Viscosity Grade	32	46	68	100	32	46	68	100
Gravity, ASTM D 4052, °API	32.3	31.3	30.8	30.1	33.5	31.9	31.0	30.6
Density, lb/gal at 60°F	7.19	7.24	7.26	7.29	7.14	7.21	7.25	7.27
Specific Gravity at 60°F	0.864	0.870	0.872	0.875	0.857	0.866	0.8771	0.874
Viscosities:								
at -18°C, cP	–	–	–	–	–	–	–	9,000
at -23.3°C, cP	–	–	–	–	1,925	4,600	9,100	19,700
at -35°C, cP	–	–	–	–	16,700	42,000	–	–
at 40°C, cSt	32.5	46.0	68.0	98.2	31.6	46.8	68.0	103
at 100°C, cSt	5.55	6.92	9.0	11.5	6.61	8.3	10.8	14.3
Viscosity Index	108	106	107	105	172	154	149	142
Appearance, Color	Green	Green	Green	Green	Green	Green	Green	Green
Flash Point, ASTM D 92								
COC, °F (°C)	435 (224)	435 (224)	468 (242)	471 (244)	417 (214)	435 (224)	453 (234)	496 (258)
Pour Point, ASTM D 97, °F (°C)	-22 (-30)	-22 (-30)	-11 (-24)	+5 (-15)	-33 (-36)	-33 (-36)	-27 (-33)	-27 (-33)
Neutralization Number (TAN)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Rust Test, ASTM D 665								
A - Distilled Water	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
B - Synthetic Sea Water	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Foam Test, ASTM D 892, Sequence I, II, III	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Oxidation Test, ASTM D 943, hrs.	5,300	5,200	4,000	3,600	4,200+	4,200+	3,500+	3,000+
Meets Denison HF-0 Requirements	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Meets Eaton Requirements M-2950-8	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–
Meets Eaton Requirements– I-286-8	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dielectric Strength, kV	–	–	–	–	35	35	–	–