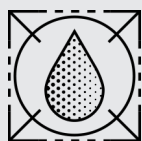


Mystik® JT-9® LeakShield™ AW Hydraulic Oils

OVERVIEW



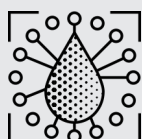
- Premium-quality antiwear, antileak, and antifoam hydraulic oils formulated for use in modern high- and low-pressure industrial and mobile hydraulic systems.
- A fully synthetic seal swell agent prevents and stops minor leaks and provides longer seal life.

FEATURES & BENEFITS



- Solvent-refined paraffinic, high viscosity index base oils with low pour points for wide temperature range applicability.
- Excellent oxidation resistance and thermal stability.
- Good water separation characteristics.
- Outstanding rust and corrosion inhibition for enhanced service life.
- Dyed green for ease of identification.

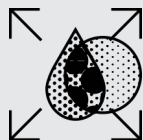
APPLICATIONS



- Highly recommended for bearings and gears which require a rust and oxidation (R&O) or R&O/ AW hydraulic oil and hydraulic circuit components including valves, motors, servos, and pumps.
- May be used in applications where general non-detergent type or R&O inhibited oils are applicable.
- Suitable for use in vacuum pumps.
- May be used as API GL-1 gear lubricants where viscosity is suitable.
- HVI-32 and HVI-68 are recommended for mobil hydraulic equipment requiring a fluid with high dielectric strength properties such as boom lifts and cranes.
- Meet or exceed:
 - ASTM D6158 HM
 - Fives Cincinnati P-68, 69, 70
 - Parker Denison HF-0
 - DIN 51524-2
 - Eaton E-FDGN-TB002-E
 - General Motors LS-2
 - AFNOR NF E 48-603 (HM)
 - ISO 11158 HM
 - JCMAS HK P041
 - SEB 18 22
 - US Steel 126, 127, 136
- HVI-32 and HVI-68 are guaranteed to have a dielectric strength of no less than 28 kV when packaged and can be used as nonconductive hydraulic oils.

Note: 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.

PROPERTIES



Typical Properties for Mystik JT-9 LeakShield AW Hydraulic Oils:

Material Code	663303002	663304002	663305002	663306002	663312002	663314002
Designation					HVI-32	HVI-68
ISO Viscosity Grade	32	46	68	100	32	68
Gravity, °API ASTM D4052	32.3	31.3	30.8	30.1	33.5	31.0
Density, lb/gal at 60°F	7.19	7.24	7.26	7.29	7.14	7.25
Specific Gravity @ 60°F ASTM D1298	0.864	0.870	0.872	0.875	0.857	0.8771
Brookfield Viscosity ASTM D2983						
at -23.3°C, cP	—	—	—	—	1,925	9,100
at -35°C, cP	—	—	—	—	16,700	—
Viscosity ASTM D445						
at 40°C, cSt	32.5	46.0	68.0	98.2	31.6	68.0
at 100°C, cSt	5.55	6.92	9.0	11.5	6.61	10.8
Viscosity Index ASTM D2270	108	106	107	105	172	149
Appearance, Color	Green	Green	Green	Green	Green	Green
Flash Point, COC, °F (°C), ASTM D92	435(224)	435(224)	468(242)	471(244)	417(214)	453(234)
Pour Point, °F (°C) ASTM D97	-22(-30)	-22(-30)	-11(-24)	+5(-15)	-33(-36)	-27(-33)
Neutralization Number						
(TAN) ASTM D664	0.5	0.5	0.5	0.5	0.5	0.5
Rust Test, ASTM D665						
A - Distilled Water	Pass	Pass	Pass	Pass	Pass	Pass
B - Synthetic Sea Water	Pass	Pass	Pass	Pass	Pass	Pass
Foam Test, ASTM D892,						
Sequence I, II, III	Pass	Pass	Pass	Pass	Pass	Pass
Oxidation Test, hrs. ASTM D943	6,000	6,000	5,000	3,600	4,200+	3,500+
Meets Denison HF-0 Requirements	Yes	Yes	Yes	Yes	Yes	Yes
Dielectric Strength, kV	—	—	—	—	35	35

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