



HVI R&O AW Hydraulic Oils

ISO VG 15 through ISO VG 46

Multi-viscosity, multi-functional oils formulated with premium quality base oils and a highly effective additive system. These oils offer maximum protection against component wear, rusting, oxidation and foaming. They possess excellent shear stability and offer easier pumping and greater mobility under cold temperature operating conditions.

Benefits:

- Provide maximum anti-wear protection for pumps, motors, valves and other hydraulic system components
- Multi-viscosity characteristics allow use of these oils in a wide range of ambient temperatures and operating conditions
- Excellent shear stability and 'stay-in-grade' performance
- Easier pumping and greater fluid mobility than mono-grade oils under cold temperature operating conditions
- Hydrolytically stable additive system
- High dielectric strength (30 kV min.)^{NOTE 1} for use in electrical service mobile equipment hydraulics on 'cherry pickers,' cranes, etc.

Application:

- Recommended where a premium quality anti-wear hydraulic oil is required. The additive system satisfies the requirements for both high pressure industrial and mobile hydraulic systems
- Hydraulic elevators, hoists, and lifts
- Mobile, industrial, and marine hydraulic systems operating in cold weather or in locations subject to wide temperature fluctuations
- Electrical service equipment (cherry pickers), mobile construction equipment, and hydraulic control systems for machine tools and presses.
- Lightly loaded gearboxes where a non-EP lubricant is recommended

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	<i>Test Method</i>			
ISO Viscosity Grade		15	32	46
API Gravity, 60°F	ASTM D-4052	35.6	32.1	31.0
Density, lbs/gal (g/L)	Calculated	7.05 (845)	7.21 (864)	7.25 (868)
Viscosity, cSt @ 40°C	ASTM D-445	15.0	32.0	46.0
Viscosity, cSt @ 100°C	ASTM D-445	3.8	6.4	8.5
Viscosity Index	ASTM D-2270	155	155	162
Brookfield Viscosity, cP @ -40°C	ASTM D-2983	2,400	21,500	70,000
Pour Point, °F (°C)	ASTM D-5949	-81 (-63)	-60 (-51)	-49 (-45)
Flash Point, °F (°C)	ASTM D-92	325 (162)	400 (204)	390 (198)
Color	ASTM D-1500	Blue	1.0	1.0
Dielectric Strength ^{Note 1} , kV (min)	ASTM D-877	30	30	30
Product Code		7357	7390	7374

Note 1 – Applicable only to pre-packaged product in sealed containers

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