



DURALIFE® EXTREME COLD CLIMATE HVI MULTIGRADE HYDRAULIC OIL

Duralife® Extreme Cold climate HVI Multigrade Hydraulic oil is premium, high viscosity index, long life high performance anti-wear hydraulic oils, formulated with high quality base oils and a balanced super-stabilised zinc free anti-wear additive system that helps neutralise the formation of corrosive materials. It is designed for extremely wide temperature protection for high and severe low temperature use in heavy duty hydraulic and hydrostatic systems such as construction, mining and forestry equipment.

APPLICATIONS:

For use in modern, high pressure, industrial and mobile equipment hydraulic systems operating at high pressures and must be started up at very low temperature.

Duralife® Extreme Cold climate HVI Multigrade Hydraulic Oil is recommended for use in equipment manufactured by Eaton Viskers, Denison, Sauer-Danfoss, Racine, Oilgear, Hydreco, Dynex, Bosch-Rexroth, Liebherr Crane and others and meet the following performance requirements:

- ❖ *Vickers I-286-S, M-2950-S, M-2952-S*
- ❖ *DIN 51524, Part 2, Part 3*
- ❖ *Cincinnati Machine P-68, P-69 and P-70*
- ❖ *Denison HF-0, HF-1, HF-2*
- ❖ *AFNOR NFE 48603(HM)*
- ❖ *U.S. Steel 127, 136*
- ❖ *General Motors LH-04-1, LH-06-1, LH-15-1*

BENEFITS:

- All season capability in ambient temperatures of -50 °C to 90 °C.
- Excellent cold-temperature-flow characteristics.
- Reduces pump wear & protect against cavitation.
- Keeps the hydraulic system corrosion free & provide long life under wet conditions.
- High viscosity index and low pour point enable the product to be used over a wide temperature range, with good shear stability which means no excessive loss in viscosity due to mechanical shearing.
- Good antifoam to prevent oil saturation and system failure, quick release of entrained air.
- Excellent resistance to sludge and deposits, maintains working components in clean operational condition.
- Excellent water-separation characteristics assure speedy removal of water from leaks and condensation.

TYPICAL CHARACTERISTICS

Test	Method	ECCAW 15	ECCAW 22	ECCAW 32
API Gravity	ASTM D287	31.14	30.21	29.29
Specific Gravity @15.6°C (60°F)	ASTM D1298	0.870	0.875	0.880
Viscosity @ 40°C, cSt @ 100°C, cSt	ASTM D445	15.0	22.2	29.1
		5.52	7.68	9.47
Viscosity Index	ASTM D 2270	372	356	337
Flash Point, °C (°F)	ASTM D92	105	115	140
		(221)	(239)	(284)
Pour Point, °C (°F)	ASTM D97	-60	-58	-55
		(-76)	(-72)	(-67)
Foam Test Seq 1 , ml	ASTM D 892	20/0	20/0	20/0
F Z G Gear Test , Fail stage (A/8.3/90)	ISO 14635-1 / DIN 51354	11	11	11
Rusting Test, synthetic seawater	ISO 7210 / ASTM D 665B	Pass	Pass	Pass

The above characteristics are average values based on recent production. Minor variations which do not affect product performance are to be expected in normal manufacture.

WARNING:

Continuous contact with used oil has caused skin cancer in animal tests. Avoid prolonged contact. Thoroughly wash exposed areas with soap and water. Keep out of reach of children.

Don't pollute. Conserve resources. Return used oil and bottle to collection centers

Reference MSDS Number 12019 database on our website at www.amtecol.com