



## DURALIFE® PREMIUM ZINC FREE HVI MULTIGRADE HYDRAULIC OILS

**Duralife® Premium Zinc Free HVI Multigrade Hydraulic oils** are high viscosity index, 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. They are designed to work with systems operating under severe conditions as in hydraulic systems using high pressure, high output pumps.

### APPLICATIONS:

For use in modern, high pressure, industrial and mobile equipment hydraulic systems operating at high pressures and temperatures in critical applications.

Good for use in CNC machines (Computer Numerically Controlled Machines)

**Duralife® Premium Zinc Free HVI Multigrade Hydraulic oils** meet the following performance requirements:

- ❖ *Vickers I-286-S, M-2950-S, M-2952-S*
- ❖ *DIN 51524, Part 2, Part 3*
- ❖ *ISO 11158 L-HV*
- ❖ *Denison HF-0*

### BENEFITS:

- Outstanding anti-wear performance, oxidation resistant, corrosion protection.
- 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	ZFAW 15	ZFAW 22	ZFAW 32	ZFAW 46	ZFAW 68	ZFAW 100	ZFAW 150	ZFAW 220
API Gravity	ASTM D287	37.35	36.55	35.56	34.00	32.27	29.66	28.39	26.95
Specific Gravity @15.6°C (60°F)	ASTM D1298	0.838	0.842	0.847	0.855	0.864	0.878	0.885	0.893
Viscosity @ 40°C, cSt	ASTM D445	15.0	22.0	32.0	46.0	68.0	100.0	150.0	220
@ 100°C, cSt		3.92	5.0	6.5	8.5	11.0	13.2	17.50	22.5
Viscosity Index	ASTM D 2270	167	163	163	164	153	130	128	125
Flash Point, °C (°F)	ASTM D92	180 (356)	200 (392)	225 (437)	230 (446)	240 (464)	240 (464)	250 (482)	250 (482)
Pour Point, °C (°F)	ASTM D97	-53 (-63)	-50 (-58)	-50 (-58)	-45 (-49)	-42 (-44)	-42 (-44)	-30 (-22)	-30 (-22)
Foam Test Seq 1 , ml	ASTM D 892	20/0	20/0	20/0	20/0	20/0	20/0	20/0	20/0
F Z G Gear Test , Fail stage ( A/8.3/90 )	ISO 14635-1 / DIN 51354	11	11	12	12	12	12	12	12
Rusting Test, synthetic seawater	ISO 7210 / ASTM D 665B	Pass	Pass	Pass	Pass	Pass	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](http://www.amtecol.com)*