

DURALIFE® SUPREME ANTI-WEAR R&O HVI MULTIGRADE HYDRAULIC OILS

Duralife® Supreme anti-wear R&O 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 additive system that helps neutralise the formation of corrosive materials. They are designed to work with systems operating under severe conditions and used in very cold environments and separate rapidly from water contamination upon standing as in the marine environment.

APPLICATIONS:

For use in hydraulic systems where cold start-up and high operating temperatures are typical, such as shipboard hydraulic machinery, deck machinery or use in applications where thin oil-film corrosion protection is an asset such as systems where small amounts of water are unavoidable.

Duralife® Supreme anti-wear R&O HVI Multigrade hydraulic oils meet the following performance requirements:

- ❖ *Eaton Vickers I-286-S, I-286-S3, M-2950-S*
- ❖ *Racine, variable volume vane pumps.*
- ❖ *DIN 51524, Part 2, Part 3 (2006)*
- ❖ *Jeffrey No.87*
- ❖ *U.S. Steel 126, 127*
- ❖ *General Motors LH-04-1, LH-06-1, LH-15-1*
- ❖ *AFNOR E 48-603*
- ❖ *Denison Parker HF-1, HF-2, HF-0*
- ❖ *Cincinnati Milacron P-68, P-69, P-70*
- ❖ *ANSI/AGMA 9005-E02-RO*
- ❖ *ASTM D 6158 (HM, HV)*
- ❖ *ISO 11158(HM, HV)*
- ❖ *SAE MS 1004(HM, HV)*
- ❖ *GM LS-2*
- ❖ *JCMAS P041 (HK)*
- ❖ *Bosch 07075& 90220*
- ❖ *SEB 181222 (FZG 12)*
- ❖ *Lee-Norse 100-1*
- ❖ *Ford M-6C32*
- ❖ *B.F. Goodrich 0512*
- ❖ *Racine*
- ❖ *Poclain*
- ❖ *Commercial Hydraulics*

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 | MAW 15 | MAW 22 | MAW 32 | MAW 46 | MAW 68 | MAW 100 | MAW 150 | MAW 220 |
|------------------------------------|-------------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| API Gravity | ASTM D287 | 29.29 | 29.29 | 29.29 | 28.39 | 28.39 | 28.03 | 27.49 | 26.07 |
| Specific Gravity @15.6°C (60°F) | ASTM D1298 | 0.88 | 0.88 | 0.88 | 0.885 | 0.885 | 0.887 | 0.890 | 0.898 |
| Viscosity @ 40°C, cSt | ASTM D445 | 15.2 | 22.5 | 32.0 | 46.2 | 68.5 | 100.0 | 150.3 | 220 |
| @ 100°C, cSt | | 4.08 | 5.30 | 6.89 | 9.03 | 12.27 | 15.24 | 20.17 | 26.02 |
| Viscosity Index | ASTM D 2270 | 181 | 180 | 182 | 180 | 178 | 160 | 155 | 150 |

| | | | | | | | | | |
|----------------------------------------------|----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Flash Point, °C (°F) | ASTM D92 | 150 (302) | 170 (338) | 210 (411) | 220 (428) | 218 (424) | 227 (441) | 232 (450) | 235 (455) |
| Pour Point, °C (°F) | ASTM D97 | -53 (-63) | -50 (-58) | -45 (-49) | -42 (-44) | -39 (-38) | -30 (-22) | -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 SDS Number 12055 database on our website at www.amtecol.com OR scan the code for a direct link.