

# MULTI-VIS R

## Hydraulic Oils

### Description

**Multi-Vis R Hydraulic Oils** are shear stable hydraulic fluids designed for year round service. This unique product line is also formulated with additional anti-wear additives providing the higher zinc level generally recommended by the manufacturer of Rexroth pumps.

**Multi-Vis R Hydraulic Oils** provide excellent low temperature pumpability and superior performance throughout a wide range of startup and operating temperatures.

**Multi-Vis R Hydraulic Oils** are highly shear stable and demonstrate superior resistance to viscosity loss when compared to major brand multi-vis products.

**Multi-Vis R Hydraulic Oils** are formulated with superior Group II base oils. The use of Group II base stocks typically increases the D 943 oxidation performance to exceed 5,000 hours.

**Multi-Vis R Hydraulic Oils** have been formulated to meet or exceed the requirements of all conventional and high-output industrial and mobile hydraulic systems.



### Features/Benefits

- Proven Field Performance
- Excellent Filterability
- Superior Anti-wear Protection
- Exceptional Water Separation
- Excellent Shear, Thermal and Oxidation Stability
- Resists Foaming in Service
- Excellent Low Temperature Properties
- Superior Rust and Corrosion Protection

### Meets or Exceeds the Requirements of:

ASTM D6158 HV, HVHP; Bosch Rexroth RDE-90235; Chinese Standard GB 11118.1 L-HM High Pressure and General; Danielli 0.000.001 Type 10 and 11 (ISO 46 and 68); DIN 51524-3 HVLP; Eaton Brochure 03-401-2010; Eaton Lubricant Specification E-FDGN-TB002-E; Eaton Vickers I-286-S, M-2950-S; Fives Cincinnati P-68, P-70, P-69 (ISO 32, 46, 68); GM LS-2; ISO 11158 HV; JCMAS HK P041; Parker Denison HF-1, HF-2, HF-0; SAE MS1004; Swedish Standard SS 155434:2015; U.S. Steel 126; ZF TE-ML 07H, TE-ML 21M

### Typical Properties

| Properties                                       | 15R        | 22R        | 26R        | 32R        | 46R        | 68R        | 100R        | 150R        |
|--|------------|------------|------------|------------|------------|------------|-------------|-------------|
| Product Number                                   | 780        | 781        | 783        | 786        | 785        | 782        | 787         | 788         |
| ISO Grade  | 15         | 22         | 22/32      | 32         | 46         | 68         | 100         | 150         |
| API Gravity @ 60°F                               | 35         | 33.2       | 32.8       | 31.7       | 30.8       | 29.9       | 29.3        | 27.7        |
| Viscosity @ 40°C, cSt                            | 15.3       | 22         | 26         | 32         | 46         | 68         | 100         | 150         |
| Viscosity @ 100°C, cSt                           | 4          | 4.8        | 5.4        | 6.3        | 8          | 10         | 12.3        | 16.8        |
| Viscosity Index, tvp                             | 170        | 150        | 150        | 150        | 145        | 130        | 115         | 120         |
| Pour Point °F, tvp                               | -60        | -55        | -50        | -50        | -45        | -40        | -30         | -15         |
| Zinc, % wt                                       | 0.08       | 0.08       | 0.08       | 0.08       | 0.08       | 0.08       | 0.08        | 0.08        |
| FZG fail stage (A8.3/90) ISO 14635-1 / DIN 51354 | ND         | ND         | ND         | ND         | 11         | 11         | 11          | 11          |
| DIN 51524 Part 3                                 | HVLP<br>15 | HVLP<br>22 | HVLP<br>26 | HVLP<br>32 | HVLP<br>46 | HVLP<br>68 | HVLP<br>100 | HVLP<br>150 |