

## **Royal Rozep AW Hydraulic Oils** **High Pressure EP Hydraulic Oil**



### **PRODUCT DESCRIPTION:**

**Royal Rozep AW Hydraulic Oils** are superior quality anti-wear hydraulic oils formulated from the finest high quality base stocks and are further fortified with high performance additives to enhance their capability. Engineered with a superior additive package, they are designed for superior performance in reciprocating compressors subjected to sour, wet, and high-pressure gasses. They are recommended for use in high pressure hydraulic systems which utilize vane, piston or gear pumps in addition are rust and oxidation (R&O) inhibited oils providing excellent performance in hydraulic systems, compressors applications where long lubricant service life is required and other applications where a high quality anti-wear type oil is required. Their superior oxidation resistance enables extended oil drain intervals, with significantly reduced sludge, varnish and carbon deposits on internal parts, pumps, and other internal components.

**Royal Rozep AW Hydraulic Oils** considerably reduce the necessity of cleaning and other maintenance, provide excellent protection against wear, as well as increase productivity and provide excellent filtration characteristics. They have excellent demulsification ability to prevent water from deteriorating internal components.

**Royal Rozep AW Hydraulic Oils** meet the performance requirements of Hagglands-Denison, Trinova Vickers, Cincinnati Milacron, Lee Norse, Jeffery and others.

### **KEY FEATURES:**

- Superior additive package with excellent anti-wear protection.
- High performance additive system with anti-oxidant, anti-foam agents, rust and corrosion inhibitors.
- Excellent protection against fluid deterioration with high base oil and additive performance.
- High resistance to foaming and excellent air release.
- Protects metal surfaces from the damaging effects of entrained water
- Protects against the corrosive effects of hydrogen-sulfide and other sour gas components
- Allows quick release of entrained gasses

### **CUSTOMER BENEFITS:**

- Exceeds performance requirements for manufacturers' pump specifications, provides longer life and performance.
- Provides superior protection against varnishing, rust, and excessive wear while extending equipment life and lowering maintenance costs.
- Less maintenance and longer life of equipment and lower repair costs.
- Prevents pump cavitation, noisy and erratic operation providing more efficient operation.
- Increased H<sub>2</sub>S protection
- Protection against entrained water

## PRODUCT DATA SHEET

### **Royal Rozep AW Hydraulic Oils** **High Pressure EP Hydraulic Oil**



#### APPLICATIONS:

**Royal Rozep AW Hydraulic Oils** meet or exceed most pump manufacturer's specifications and may be used as a premium hydraulic fluid, compressor oil, and other applications as recommended where superior performance of an anti-wear/rust and oxidation performance type fluid may be needed. These high performance hydraulic and circulating lubricants are designed for applications where long lubricant service life is required. They are also recommended for use in other applications which require a long life premium anti-wear fluid such as in turbines, pumps, machine tools, gear drives, circulating oil systems, oil mist systems, etc.

#### **Specific applications include:**

- Land-based and marine steam turbine, hydro turbine and some gas turbine circulation systems, including pumps, valves and other ancillary equipment requiring antiwear additives
- Continuous service in plain and roller bearings and parallel shaft gearing
- Turbines with oil supplied by splash, bath, ring oiling or other mechanical means

#### PACKAGING:

Totes and Drums

## PRODUCT DATA SHEET

### Royal Rozep AW Hydraulic Oils High Pressure EP Hydraulic Oil



### Typical Properties

| Rozep AW Hydraulic Oils      |         |         |         |        |         |         |         |         |         |             |
|------------------------------|---------|---------|---------|--------|---------|---------|---------|---------|---------|-------------|
| Product Number               | 225     | 226     | 227     | 228    | 229     | 230     | 231     | 232     | 233     | Test Method |
| ISO Grade                    | 22      | 32      | 46      | 68     | 100     | 150     | 220     | 320     | 460     |             |
| Color ASTM                   | 1.5     | 1.5     | 2.0     | 2.0    | 3.0     | 4.5     | 4.5     | 5.0     | 5.5     | ASTM D1500  |
| Viscosity @ 40C, cSt         | 22      | 31      | 45      | 66     | 101     | 150     | 220     | 320     | 460     | ASTM D445   |
| Viscosity @ 100C, cSt        | 4.4     | 5.2     | 6.6     | 8.4    | 11.1    | 14.5    | 18.0    | 24.0    | 29.0    | ASTM D445   |
| Viscosity @ 100F, SUS        | 120     | 160     | 232     | 342    | 528     | 798     | 1165    | 1705    | 2475    | ASTM D445   |
| Viscos Viscosity @ 210F, SUS | 41      | 44      | 48      | 55     | 64      | 78      | 93      | 120     | 142     | ASTM D445   |
| Viscosity Index              | 97      | 97      | 97      | 97     | 95      | 95      | 95      | 95      | 91      | ASTM D2270  |
| Flash Point, F               | 380     | 399     | 424     | 455    | 460     | 475     | 489     | 518     | 529     | ASTM D92    |
| Pour Point, F                | -33     | -27     | -22     | -22    | -11     | 0       | 5       | 10      | 12      | ASTM D97    |
| Gravity, API                 | 33.7    | 32.6    | 31.8    | 30.9   | 29.6    | 28.5    | 28.0    | 26.9    | 25.9    | ASTM 4052   |
| Lbs/Gal                      | 7.162   | 7.193   | 7.261   | 7.284  | 7.289   | 7.322   | 7.385   | 7.41    | 7.433   |             |
| Density                      | 0.85954 | 0.86328 | 0.87139 | 0.8742 | 0.87474 | 0.87874 | 0.88625 | 0.88923 | 0.89201 |             |
| Copper Corrosion             | 1b      | 1b      | 1b      | 1b     | 1b      | 1b      | 1b      | 1b      | 1b      |             |
| TOST Hours                   | 6000    | 6000    | 6000    | 6000   | 6000    | 6000    | 6000    | 6000    | 6000    |             |

Typical Properties are typical of those obtained with normal production tolerance and do not constitute essentially a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice.

#### Health and Safety:

When used for its intended application, this product is not expected to have any adverse health implications. For complete information on safe handling, as well as physical and chemical characteristics please refer to the Material Safety Data Sheet (MSDS) found on our website, [www.royalmfg.com](http://www.royalmfg.com), or call 918-584-2671. Do not use this product for purposes other than its intended use. Please be responsible to the environment when disposing of used product.