



# Peak Oil

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## TECHNICAL DATA

# Apollo R Range Ashless Zinc Free Hydraulic Fluids



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## TECHNICAL DATA

### Apollo R Range

#### Ashless Zinc Free Hydraulic Fluids

Premium quality hydraulic oils based on solvent refined high viscosity index mineral oils. They are classified as universal performance grades with additive treatments to ensure improved anti-wear and EP properties whilst still maintaining compatibility with silver-plated components and phosphor bronze material. Their improved levels of hydrolytic stability, thermal stability and filterability satisfy the requirements of all major pump manufacturers, whilst the inclusion of antioxidants, antirust and antifoam additives ensures extended lubricant performance and machinery life.

These grades are increasingly required where the hydraulic fluid is subjected to ultra fine filtration during use. Sophisticated computer controlled systems demand very fine filtration to keep the lubricant clean and to ensure satisfactory operation of valves and servomechanisms.

Designed to meet the most severe performance requirements of the major machine tool and mobile hydraulic equipment manufacturers, including Denison, Sperry Vickers and Cincinnati Milacron.

#### Performance Benefits

- ◆ *Exceptional thermal stability at high temperatures, reducing problematic deposit formation giving extended equipment life and reducing costly downtime*
- ◆ *Excellent water separation properties allowing the ingress of moisture into systems to be drained off without changing the fluid, giving extended fluid life and reducing the likelihood of corrosion damage*
- ◆ *Outstanding seal compatibility with elastomers and seal material recommended for use with conventional mineral oil based hydraulic fluids, therefore enabling "problem free" fluid change over and giving reduced costs*
- ◆ *Excellent anti-wear protection particularly on highly loaded steel-on-bronze, steel-on-steel contacts and many other sensitive metals including silver plated components, extending pump life and reducing costly downtime*



## Typical Physical Characteristics

| <b>Apollo</b>           | <b>R32</b> | <b>R46</b> | <b>R68</b> |
|-------------------------|------------|------------|------------|
| Specific Gravity @ 15°C | 0.874      | 0.878      | 0.884      |
| Viscosity @ 40°C (cSt)  | 32.0       | 46.0       | 68.0       |
| Viscosity @ 100°C (cSt) | 5.4        | 6.8        | 8.8        |
| Viscosity Index         | 102        | 102        | 102        |
| Closed Flash Point °C   | 206        | 206        | 215        |
| Pour Point °C           | -15        | -15        | -15        |

## Performance Specifications

|               |                           |
|---------------|---------------------------|
| Din           | 51524 Part II (HLP)       |
| Denison       | HF-0, HF-1, HF-2          |
| Cincinnati    | P-68, P-69, P-70          |
| US Steel      | 127 & 136                 |
| GM            | LH-04-1, LH-06-1, LH-15-1 |
| Sauer Danfoss |                           |
| Rexroth       |                           |
| Bosh          | Variable Vane Pumps       |

## Health and Safety

The product is mineral oil based and should be handled according to good standards of industrial hygiene. Further detailed information please is available on request

## Storage

Drums should be stored on their sides in a clean dry place and protected from extremes of temperature, store >5°C.

The information given is correct to the best of our knowledge. It is offered in good faith but without guarantee as the conditions and methods of use of our products are beyond our control.