

# TECHNICAL DATA SHEET

# CIRCULATING OIL



## DESCRIPTION

Gulf Western Circulating Oil range provides an all-round lubrication for a wide array of industrial equipment. It is a heavy-duty, high-performance versatile product, making them an excellent choice for circulation systems lubricating gears and bearings. Gulf Western Circulating Oils are designed to meet the requirements of high speed No-Twist Rod Mills, and is formulated and produced to provide superior wettability, outstanding oil retention and maintain protective oil film, protection against rust and corrosion, coupled with superb resistance to oxidation and thermal degradation and good protection against wear. With good demulsibility, it allows water and other contaminants to separate quickly, and remove water from the system to ensure that all parts are coated in oil and protected against corrosion.

Gulf Western Circulating Oils are recommended for the lubrication of circulation system of No-Twist Rod Mills, bearings, gears and auxiliary equipment, parallel shaft and hydraulic systems.

## SUMMARY OF BENEFITS

- Excellent protection of bearings and gears
- Superb water separability
- Good protection against rust and corrosion
- High thermal and oxidation stability
- Longer oil change cycle and less costs of unforeseen production intervals
- Outstanding anti-wear performance
- Reduce downtime and maintenance costs

## SPECIFICATIONS

- MORGAN OIL QUALITY SPECIFICATION NO-TWIST MMC 40003
- ASTM D6158
- BOSCH REXROTH RDE 90235
- CONESTOGA PUMP TEST ISO 20763
- DIN 51524
- EATON E-FDGN-TB002-E
- FIVES P68, P69, P70
- ISO11158
- PARKER HF-0, HF-1 AND HF-2

| CIRCULATING OIL  | ISO 100 | ISO 150 | ISO 220 | ISO 320 |
|--|---------|---------|---------|---------|
| Density @ 15 C, kg/l, ASTM D1298                             | 0.87    | 0.88    | 0.88    | 0.88    |
| Copper Strip Corrosion, ASTM D130                            | 1a      | 1a      | 1a      | 1a      |
| Demulsibility, Total Free Water, Non-EP Oils, ml, ASTM D2711 | 39      | 38      | 36      | 39      |
| Water Separability, 40/37/3, mins, ASTM D1401                | -       | 10      | 10      | 15      |
| FZG Scuffing, Fail Load Stage, A/8.3/90, ISO 14635-1         | 12      | 12      | 12      | 12      |
| Foam, Sequence I, Stability, ml, ASTM D892                   | 0       | 0       | 0       | 0       |
| Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s, ASTM D445   | 11.2    | 14.4    | 18.8    | 24.4    |
| Kinematic Viscosity @ 40 C, mm <sup>2</sup> /s, ASTM D445    | 102     | 146     | 215     | 309     |
| Viscosity Index, ASTM D2270                                  | 97      | 95      | 95      | 95      |
| Pour Point, °C, ASTM D97                                     | -21     | -21     | -18     | -15     |
| Flash Point, COC, °C, ASTM D92                               | 262     | 270     | 282     | 286     |
| Rust Test, Procedure A&B, ASTM D665                          | PASS    | PASS    | PASS    | PASS    |

Typical characteristics are only a guide to industry and are not necessarily manufacturing or marketing specifications and do not constitute any legal liability.

## STORAGE INSTRUCTIONS & HEALTH, SAFETY AND ENVIRONMENT INFORMATION

All packages should be stored under cover to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60°C. Health, safety and environmental information is provided for this product in the relevant Materials Safety Data Sheet, which can be obtained by contacting Gulf Western Oil on: 02 9673 9600.

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## GULF WESTERN PREMIUM QUALITY LUBRICATING OILS (AUST) PTY LTD

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