

PRODUCT DATA SHEET



Marathon Revolution | R&O Oils ISO VG: 22, 32, 46, 68, 100, 150, 220, 320, 460

Product Description

Marathon Revolution R&O Oil is designed for general-purpose lubrication of turbines, compressors, and a range of circulating and industrial applications. Extremely hydro-processed base oils and an advanced additive suite ensure dependable performance during extended high temperature operations. Additional benefits include exceptional lubrication, rust protection, oxidation inhibition, foam suppression, and thermal stability.

Marathon Revolution replaces other niched application lubricants, reducing inventory and operating costs. Recommended in most hydroelectric, marine, steam turbine, electric motor bearing, air compressor, gear, and non-heavy duty hydraulic systems, where the OEM recommends R&O type oils.

Applications

- Electric motor bearings
- Air compressors
- Non-EP gears & bearings
- Hydroelectric turbines
- Steam turbines
- Marine turbines
- Circulating lubrication systems
- Non-anti-wear hydraulic systems

Features & Benefits

- **Long Lubricant Life**
Enhanced thermal and oxidation stability. Combats oxidation deposits and acidic material from forming.
- **Rust, Corrosion, and Oxidation Protection**
Extended equipment life and additive package that inhibits rust and corrosion.
- **Excellent Demulsibility**
Reliable lubricant film strength and reduced wear via quick water separation.
- **Anti-Foam Protection**
Foam inhibitors ensure efficient release of foam and entrained air.
- **Rapid Air Release**
Minimizes pump cavitation in high circulation rate systems.

Industry & OEM Applications¹

- Alstom Power HTGD 90 117 V0001R
- Siemens TLV 9013 04/01
- General Electric GEK 28143A
- FIVES / Cincinnati Machine P-38, P-55
- ASTM D 4304, British Standard 489
- DIN 51524-1, DIN 51515-1
- Parker Denison HF-0 Bench Test

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Technical Data (Typical values)

| ISO Grade | | 22 | 32 | 46 | 68 | 100 | 150 | 220 | 320 | 460 |
|---------------------|-------------|------|------|------|------|------|------|-------|-------|-------|
| API Gravity | | 34.4 | 33 | 31.9 | 31.5 | 30.6 | 29.7 | 27.7 | 27.5 | 27.1 |
| Viscosity | D1298 | | | | | | | | | |
| cSt @ 40°C | D445 | 22 | 32 | 46 | 68 | 100 | 150 | 220 | 320 | 460 |
| cSt @ 100°C | D445 | 4.4 | 5.6 | 6.9 | 8.7 | 11.7 | 14.4 | 18.3 | 23.4 | 32 |
| SUS @ 100°F | Calc | 118 | 167 | 242 | 332 | 537 | 717 | 1,071 | 1,628 | 2,435 |
| SUS @ 210°F | Calc | 41 | 45 | 49 | 56 | 67 | 77 | 94 | 117 | 157 |
| Viscosity Index | D2270 | 111 | 114 | 116 | 108 | 105 | 104 | 99 | 96 | 96 |
| Pour Point °C | D97 | -37 | -37 | -33 | -33 | -29 | -21 | -15 | -15 | -9 |
| Flash Point °F | D92 | 410 | 410 | 450 | 469 | 531 | 525 | 545 | 572 | 590 |
| Copper Corrosion | D-130 | 1A | 1A | 1A | 1A | 1A | 1A | 1A | 1A | 1A |
| Demulsibility | D-1401 | | | | | | | | | |
| Minutes to Pass | | 10 | 10 | 10 | 10 | 15 | 15 | 15 | 20 | 20 |
| Foam Test | D-892 | Pass | Pass | Pass | Pass | Pass | Pass | Pass | Pass | Pass |
| Oxidation Stability | D-943 | | | | | | | | | |
| hrs to 2.0 TAN | | 7500 | 7500 | 7500 | 7500 | 7500 | - | - | - | - |
| Rust Test | D-665 A & B | Pass | Pass | Pass | Pass | Pass | Pass | Pass | Pass | Pass |

(1) Consult your owner's manual regarding its suitability for use in equipment from other OEMs. These circulating oils perform in most equipment without concern for fluid-related harm.

The recommended shelf life for these oils is typically 48 months from manufacturing date when stored properly in the original sealed containers.

The product described above is designed for a specific use and may not be valid for other uses not specified in our specification sheet or in applications not requiring this specific product. Marathon Petroleum Company believes the information presented in this specification is accurate at the time written and is based upon internally generated information and information as presented by its vendors. No representation, warranty, or guarantee is made as to its accuracy or completeness. We do not accept any liability for any loss or damage that may occur from the use of this information.