



| | |
|-----------------|---------------|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |

Machine Id
EPIROC D60 G18SED0760

Component
Right Final Drive

Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | JR0197307 | JR0186401 | JR0168244 |
| Sample Date | | Client Info | | 16 Jan 2024 | 08 Sep 2023 | 17 Aug 2023 |
| Machine Age | hrs | Client Info | | 9736 | 9172 | 8990 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Changed |
| Filter Changed | | Client Info | | N/A | Not Changd | None |
| Sample Status | | | | NORMAL | SEVERE | SEVERE |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|-------|-------|
| PQ | | ASTM D8184 | | 8 | 546 | 323 |
| Iron | ppm | ASTM D5185m | >500 | 0 | ▲ 797 | ▲ 765 |
| Chromium | ppm | ASTM D5185m | >10 | 0 | 7 | 7 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 3 | 3 |
| Titanium | ppm | ASTM D5185m | | 0 | 8 | 8 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 0 | ▲ 102 | ▲ 102 |
| Lead | ppm | ASTM D5185m | >25 | 0 | ▲ 83 | ▲ 93 |
| Copper | ppm | ASTM D5185m | >50 | <1 | ▲ 95 | ▲ 95 |
| Tin | ppm | ASTM D5185m | >10 | 0 | 2 | 4 |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| White Metal | scalar | *Visual | NONE | NONE | MODER | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

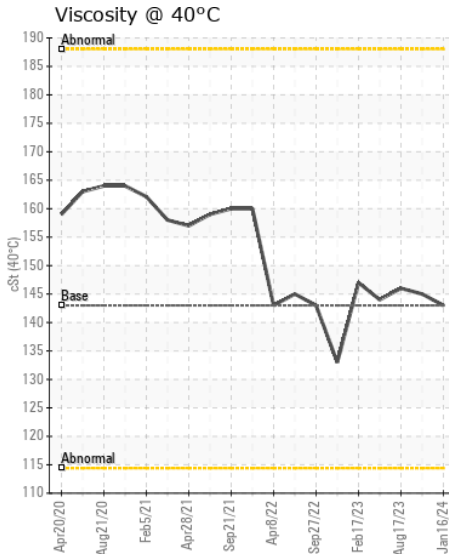
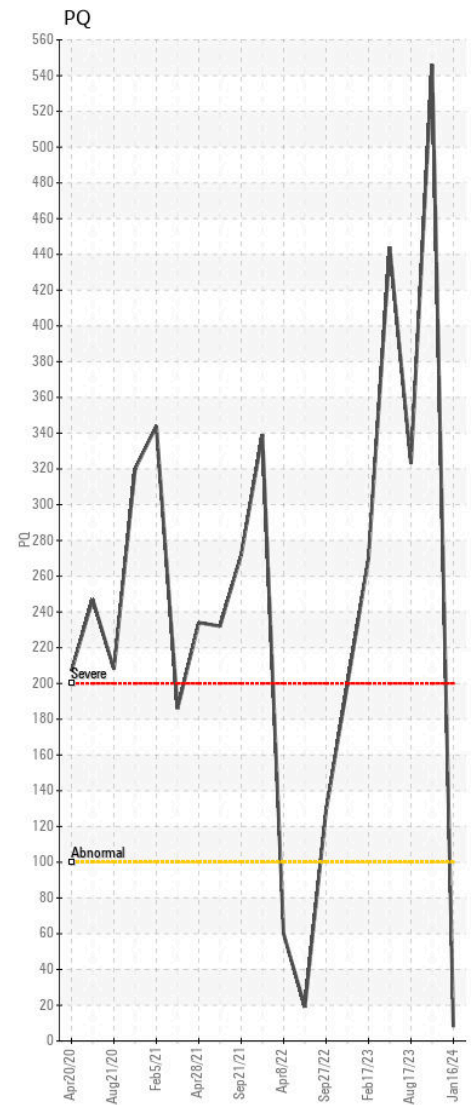
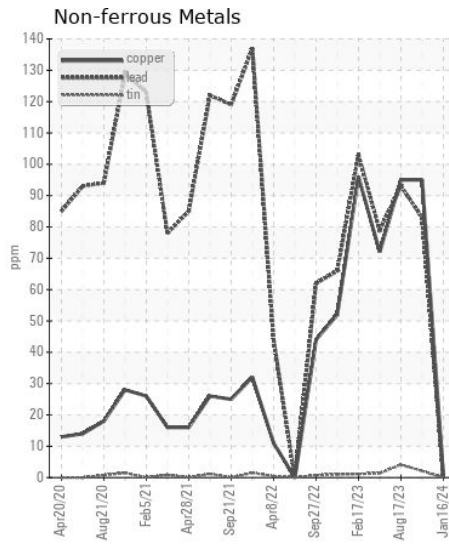
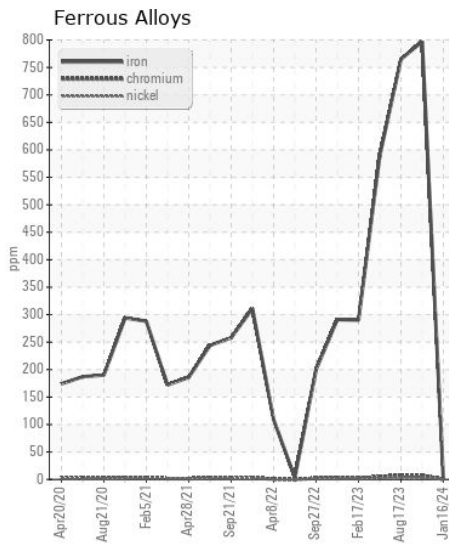
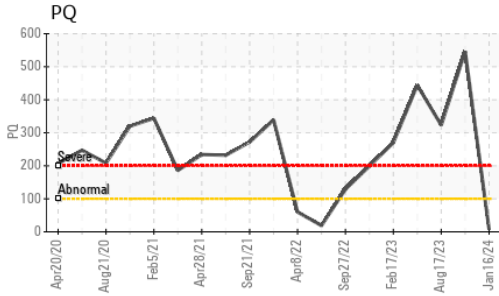
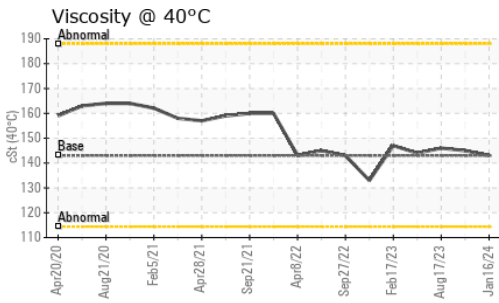
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >75 | 1 | ● 291 | ● 278 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 18 | 21 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Silt | scalar | *Visual | NONE | NONE | NONE | LIGHT |
| Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | NEG |

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

| | | | | | | |
|-------------|-----|-------------|-------|--------------|-------|-------|
| Sodium | ppm | ASTM D5185m | >170 | <1 | 25 | 28 |
| Boron | ppm | ASTM D5185m | 400 | 0 | 11 | 14 |
| Barium | ppm | ASTM D5185m | 200 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 12 | 0 | <1 | 4 |
| Manganese | ppm | ASTM D5185m | | 0 | 8 | 10 |
| Magnesium | ppm | ASTM D5185m | 12 | 0 | 26 | 30 |
| Calcium | ppm | ASTM D5185m | 150 | 3 | 89 | 101 |
| Phosphorus | ppm | ASTM D5185m | 1650 | 318 | 2132 | 2509 |
| Zinc | ppm | ASTM D5185m | 125 | 0 | 75 | 52 |
| Sulfur | ppm | ASTM D5185m | 22500 | 18932 | 25056 | 36814 |
| Visc @ 40°C | cSt | ASTM D445 | 143 | 143 | 145 | 146 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0197307 **Received** : 17 Jan 2024
Lab Number : 06063084 **Diagnosed** : 18 Jan 2024
Unique Number : 10834466 **Diagnostician** : Sean Felton
Test Package : CONST (Additional Tests: PQ)

RDU - MARTIN MARIETTA
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 RALEIGH, NC
 US 27622
 Contact: Chad Franks
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 T:
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To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)