



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

Area
[W47851 SEG 5]

Machine Id
HITACHI 350LC 1FFDDR70HKF940804

Component
Left Final Drive

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

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | JR0208538 | JR0166650 | JR0147476 |
| Sample Date | | Client Info | | 01 Jul 2024 | 10 Mar 2023 | 14 Oct 2022 |
| Machine Age | hrs | Client Info | | 5718 | 5440 | 5310 |
| Oil Age | hrs | Client Info | | 0 | 0 | 1310 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Not Changd |
| Filter Changed | | Client Info | | N/A | Not Changd | N/A |
| Sample Status | | | | ABNORMAL | ABNORMAL | ABNORMAL |

WEAR

Gear wear is indicated.

| PQ | UOM | Method | Limit/Abn | Current | History1 | History2 |
|--------------|--------|-------------|-----------|--------------|----------|----------|
| PQ | | ASTM D8184 | | 169 | ▲ 344 | 198 |
| Iron | ppm | ASTM D5185m | >500 | ▲ 522 | ▲ 510 | 445 |
| Chromium | ppm | ASTM D5185m | >10 | 3 | 3 | 3 |
| Nickel | ppm | ASTM D5185m | >10 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185m | | 1 | 1 | 1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >25 | ● 13 | ● 13 | ● 10 |
| Lead | ppm | ASTM D5185m | >25 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >50 | <1 | 1 | 1 |
| Tin | ppm | ASTM D5185m | >10 | 0 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | LIGHT |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

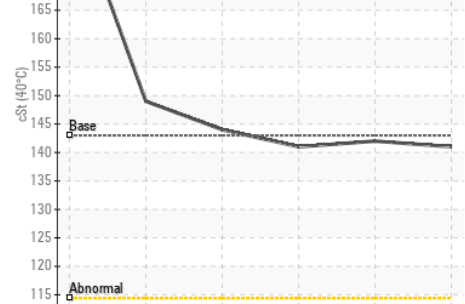
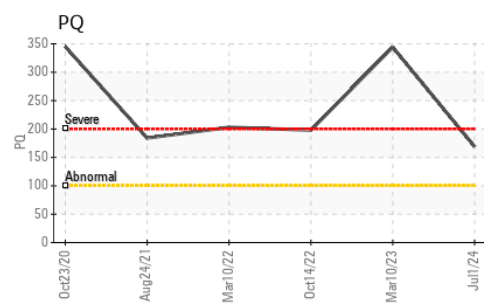
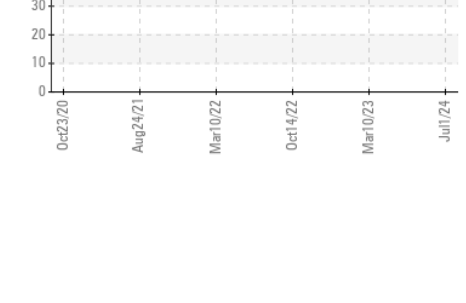
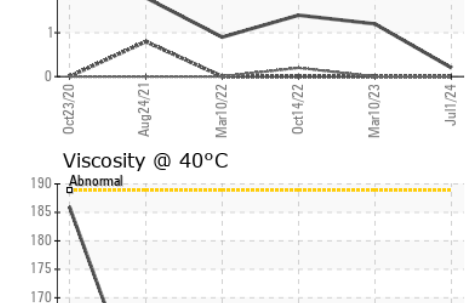
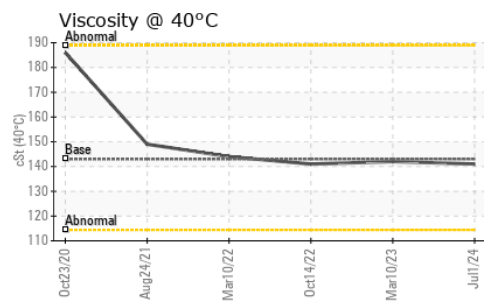
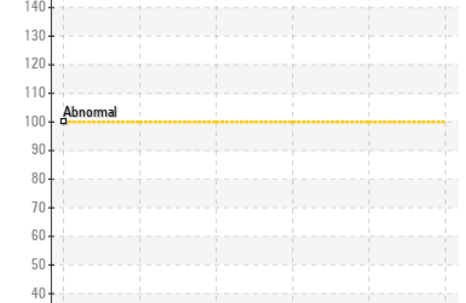
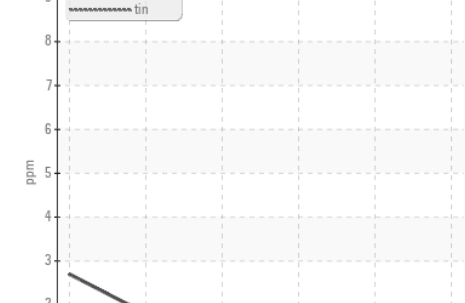
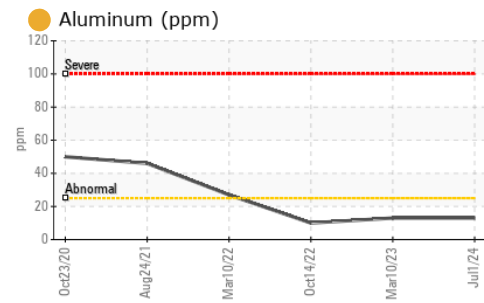
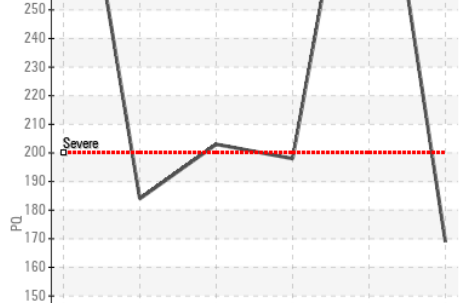
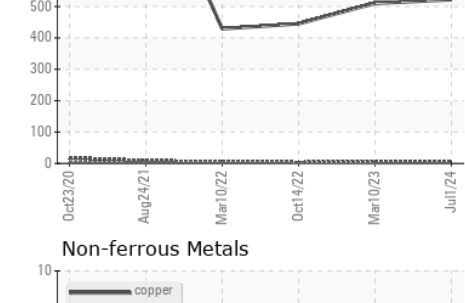
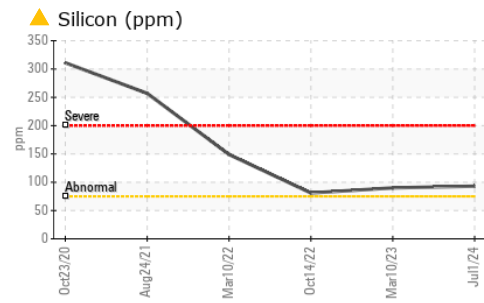
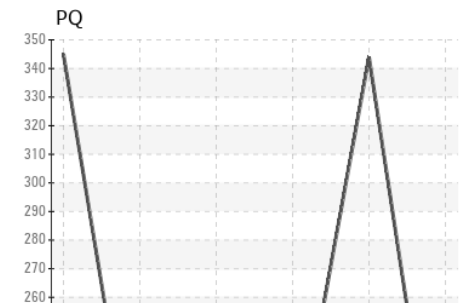
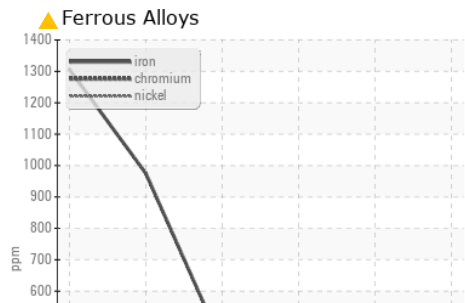
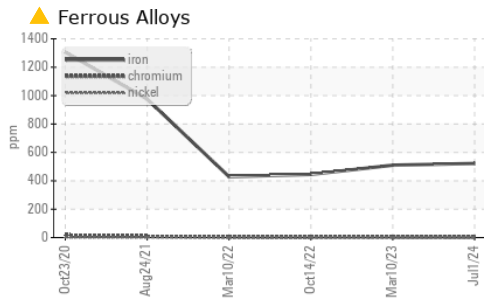
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >75 | ▲ 93 | ▲ 90 | ▲ 81 |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 2 | <1 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| 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 | 2 | 2 | 0 |
| Boron | ppm | ASTM D5185m | 400 | 155 | 158 | 183 |
| Barium | ppm | ASTM D5185m | 200 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 12 | 0 | <1 | <1 |
| Manganese | ppm | ASTM D5185m | | 5 | 4 | 5 |
| Magnesium | ppm | ASTM D5185m | 12 | 3 | <1 | 0 |
| Calcium | ppm | ASTM D5185m | 150 | 15 | 11 | 0 |
| Phosphorus | ppm | ASTM D5185m | 1650 | 1048 | 949 | 993 |
| Zinc | ppm | ASTM D5185m | 125 | 7 | 6 | 0 |
| Sulfur | ppm | ASTM D5185m | 22500 | 32604 | 30282 | 25056 |
| Visc @ 40°C | cSt | ASTM D445 | 143 | 141 | 142 | 141 |



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0208538 **Received** : 03 Jul 2024
Lab Number : 06227816 **Tested** : 05 Jul 2024
Unique Number : 11111309 **Diagnosed** : 07 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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Certificate L2367
 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)