



OIL ANALYSIS REPORT

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

Machine Id
P-5
 Component
Gearbox
 Fluid
SHELL OMALA S2 GX 220 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

The water content is negligible. No other contaminants were detected in the oil.

FLUID CONDITION

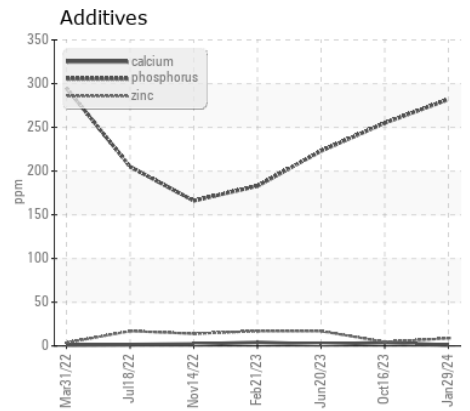
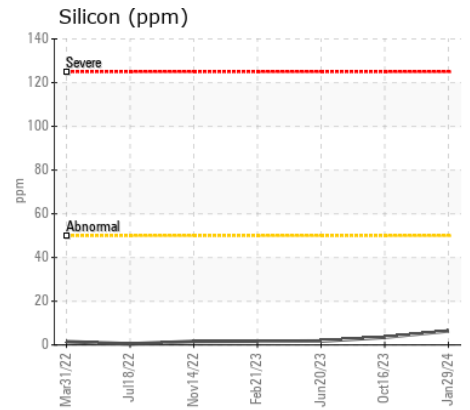
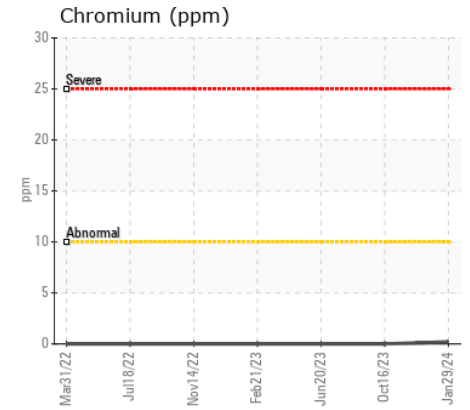
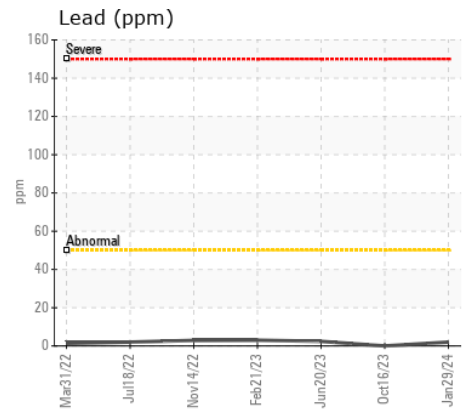
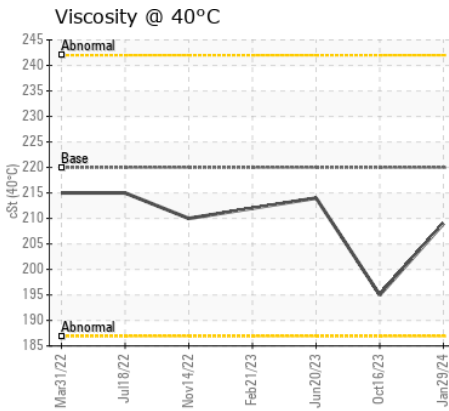
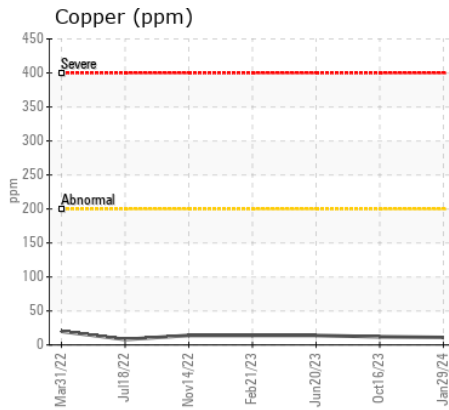
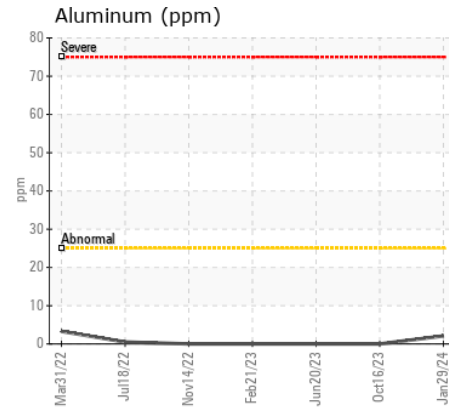
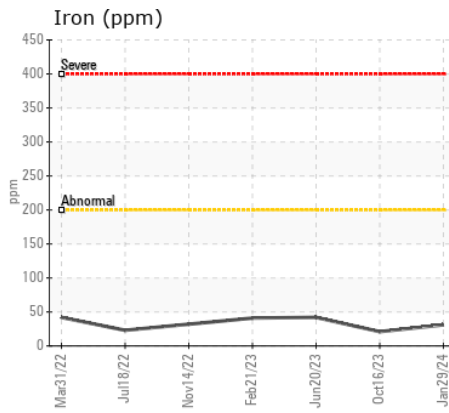
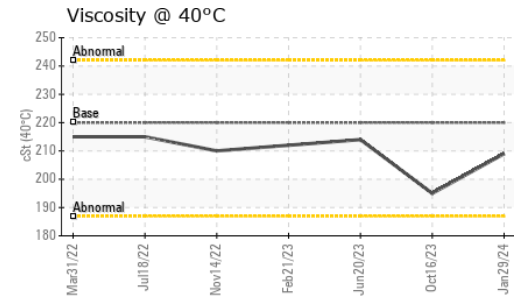
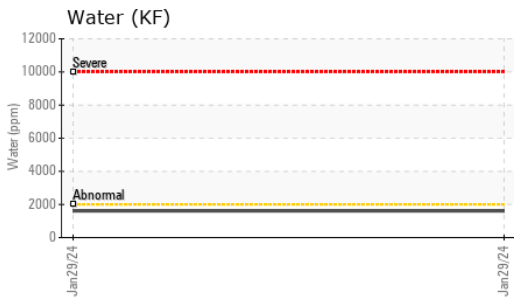
The condition of the oil is acceptable for the time in service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0893794 | WC0831572 | WC0831558 |
| Sample Date | | Client Info | | 29 Jan 2024 | 16 Oct 2023 | 20 Jun 2023 |
| Machine Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Filter Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >200 | 31 | 21 | 42 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >10 | <1 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >25 | 2 | 0 | 0 |
| Lead | ppm | ASTM D5185m | >50 | 2 | 0 | 2 |
| Copper | ppm | ASTM D5185m | >200 | 11 | 12 | 14 |
| Tin | ppm | ASTM D5185m | >10 | 1 | <1 | 1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >50 | 6 | 4 | 2 |
| Potassium | ppm | ASTM D5185m | >20 | 5 | 2 | 6 |
| Water | % | ASTM D6304 | >0.2 | 0.161 | --- | --- |
| ppm Water | ppm | ASTM D6304 | >2000 | 1610 | --- | --- |
| 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 | HAZY | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.2 | 0.2% | NEG | NEG |

| | | | | | | |
|-------------|-----|-------------|------|--------------|------|-------|
| Sodium | ppm | ASTM D5185m | | 4 | 5 | <1 |
| Boron | ppm | ASTM D5185m | 6.2 | 15 | 5 | 7 |
| Barium | ppm | ASTM D5185m | 0.0 | <1 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 0 | <1 | 14 | <1 |
| Calcium | ppm | ASTM D5185m | 0.0 | 1 | 4 | 2 |
| Phosphorus | ppm | ASTM D5185m | 290 | 282 | 255 | 223 |
| Zinc | ppm | ASTM D5185m | 3.8 | 9 | 5 | 17 |
| Sulfur | ppm | ASTM D5185m | 8167 | 10315 | 7558 | 12052 |
| Visc @ 40°C | cSt | ASTM D445 | 220 | 209 | 195 | 214 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0893794 **Received** : 31 Jan 2024
Lab Number : 06076103 **Diagnosed** : 01 Feb 2024
Unique Number : 10858194 **Diagnostician** : Sean Felton
Test Package : MOB 1 (Additional Tests: KF)

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)

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