# WEAR CHECK CONST
## OIL ANALYSIS REPORT

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

Machine Id
## CR1208
Component
## 1 Winch
Fluid
## GEAR OIL ISO 220 (--- GAL)

## RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **WC0873418** | WC0809208 | --- |
| Sample Date | | Client Info | | **25 Jan 2024** | 12 May 2023 | --- |
| Machine Age | hrs | Client Info | | **5358** | 4683 | --- |
| Oil Age | hrs | Client Info | | **675** | 1090 | --- |
| Filter Age | hrs | Client Info | | **0** | 0 | --- |
| Oil Changed | | Client Info | | **Changed** | Changed | --- |
| Filter Changed | | Client Info | | **Changed** | Changed | --- |
| Sample Status | | | | **NORMAL** | NORMAL | --- |

## WEAR

All component wear rates are normal.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185m | >150 | **31** | 31 | --- |
| Chromium | ppm | ASTM D5185m | >10 | **<1** | <1 | --- |
| Nickel | ppm | ASTM D5185m | >10 | **<1** | 0 | --- |
| Titanium | ppm | ASTM D5185m | | **0** | 0 | --- |
| Silver | ppm | ASTM D5185m | | **0** | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >5 | **<1** | 0 | --- |
| Lead | ppm | ASTM D5185m | >15 | **<1** | 0 | --- |
| Copper | ppm | ASTM D5185m | >80 | **0** | 1 | --- |
| Tin | ppm | ASTM D5185m | | **<1** | 0 | --- |
| Vanadium | ppm | ASTM D5185m | | **0** | <1 | --- |
| White Metal | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | --- |

## CONTAMINATION

There is no indication of any contamination in the oil.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >25 | **<1** | <1 | --- |
| Potassium | ppm | ASTM D5185m | >20 | **4** | 3 | --- |
| Water | | WC Method | >0.2 | **NEG** | NEG | --- |
| Silt | scalar | *Visual | NONE | **LIGHT** | NONE | --- |
| Debris | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Appearance | scalar | *Visual | NORML | **NORML** | NORML | --- |
| Odor | scalar | *Visual | NORML | **NORML** | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.2 | **NEG** | NEG | --- |

## FLUID CONDITION

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

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sodium | ppm | ASTM D5185m | | **2** | 2 | --- |
| Boron | ppm | ASTM D5185m | 50 | **0** | 2 | --- |
| Barium | ppm | ASTM D5185m | 15 | **2** | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | 15 | **0** | 0 | --- |
| Manganese | ppm | ASTM D5185m | | **<1** | 0 | --- |
| Magnesium | ppm | ASTM D5185m | 50 | **2** | <1 | --- |
| Calcium | ppm | ASTM D5185m | 50 | **9** | <1 | --- |
| Phosphorus | ppm | ASTM D5185m | 350 | **228** | 9 | --- |
| Zinc | ppm | ASTM D5185m | 100 | **20** | 2 | --- |
| Sulfur | ppm | ASTM D5185m | 12500 | **4032** | 2446 | --- |
| Visc @ 40°C | cSt | ASTM D445 | 220 | **235** | 236 | --- |
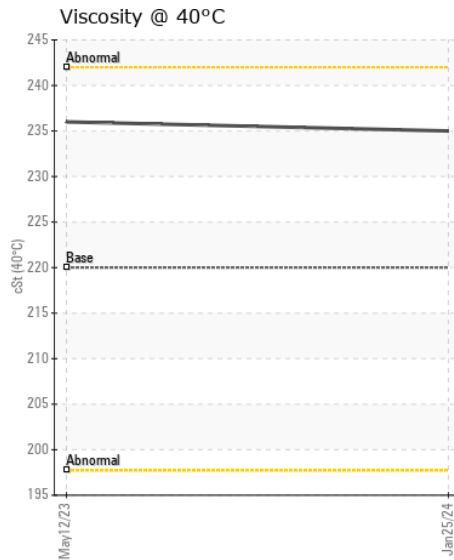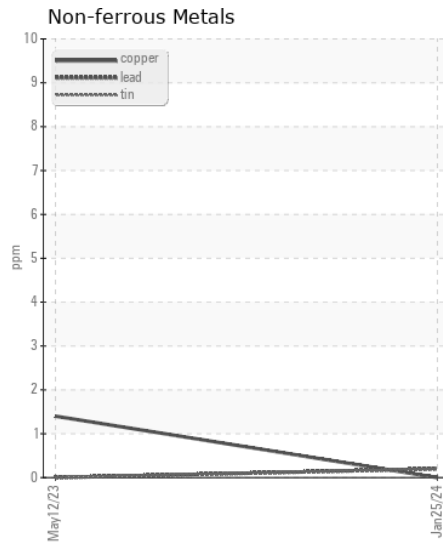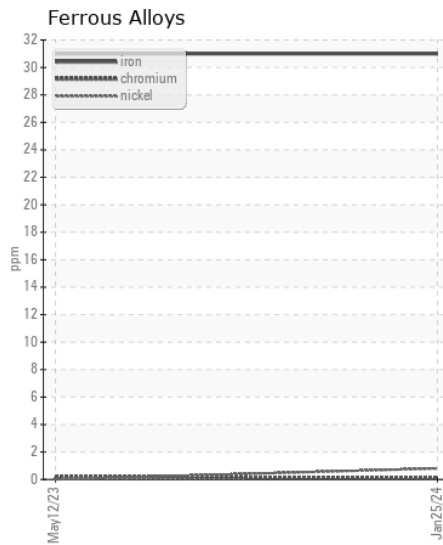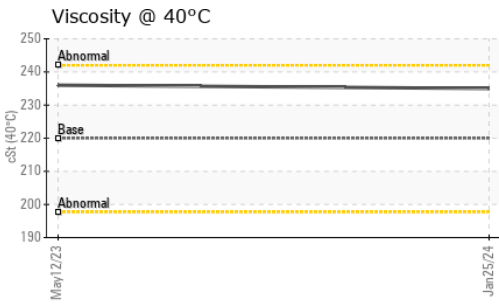
## Viscosity @ 40°C



## Ferrous Alloys



## Non-ferrous Metals



## Viscosity @ 40°C

Certificate L2367

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