



OIL ANALYSIS REPORT

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

Machine Id
CORSTEEL HYD EM023236 (S/N CH189703-8)

Component
Hydraulic System

Fluid
CHEVRON HYDRAULIC AW ISO 68 (200 LTR)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0806196 | WC0669662 | WC0399426 |
| Sample Date | | Client Info | | 03 Jun 2024 | 13 May 2022 | 30 May 2021 |
| Machine Age | hrs | Client Info | | 18050 | 18000 | 18000 |
| Oil Age | hrs | Client Info | | 4480 | 4300 | 3900 |
| Filter Age | hrs | Client Info | | 580 | 400 | 3900 |
| Oil Changed | | Client Info | | Not Chngd | Not Chngd | Not Chngd |
| Filter Changed | | Client Info | | Not Chngd | Changed | Not Chngd |
| Sample Status | | | | ATTENTION | ABNORMAL | ABNORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|---------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185(m) | >20 | 0 | 0 | <1 |
| Chromium | ppm | ASTM D5185(m) | >10 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | >10 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185(m) | >10 | <1 | 0 | <1 |
| Lead | ppm | ASTM D5185(m) | >10 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185(m) | >75 | 4 | 3 | 8 |
| Tin | ppm | ASTM D5185(m) | >10 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| White Metal | scalar | Visual* | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE | NONE |

CONTAMINATION

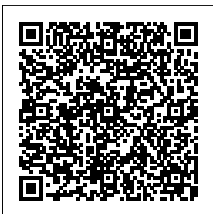
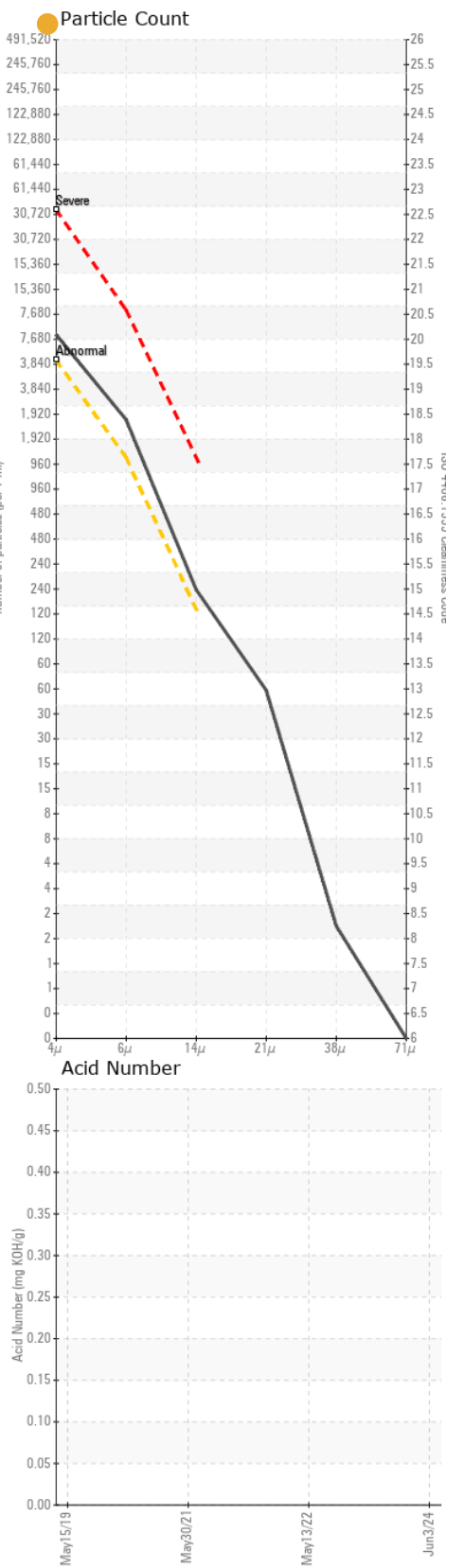
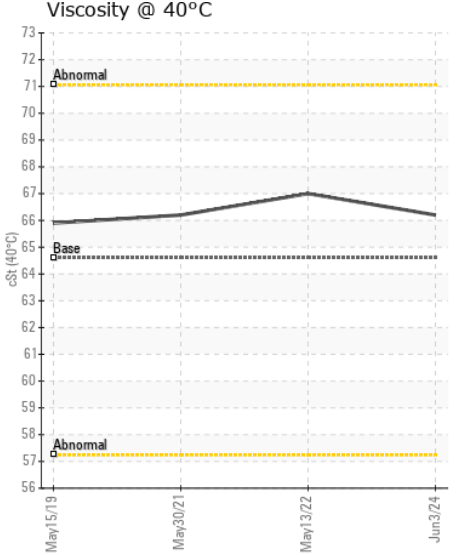
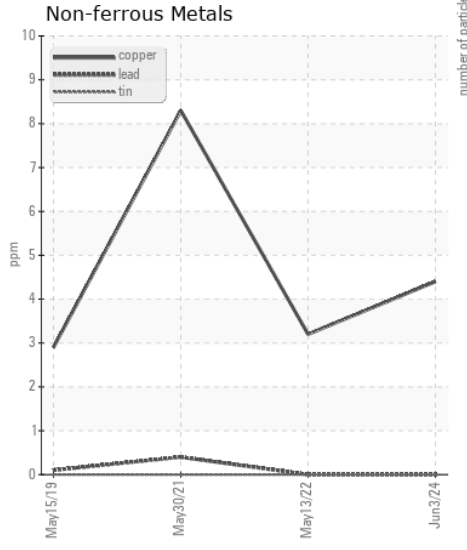
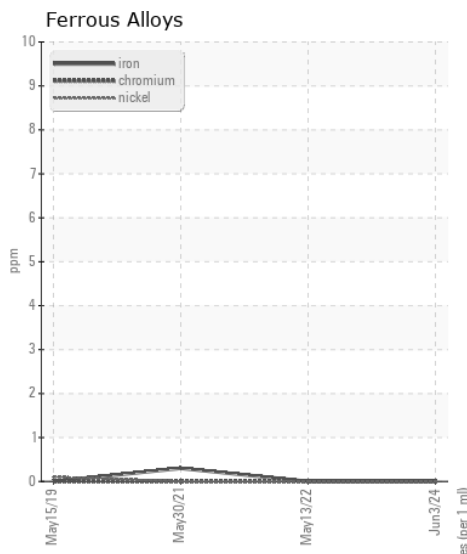
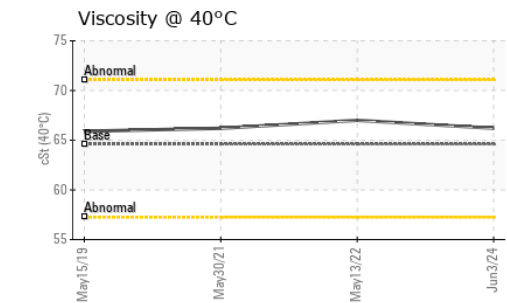
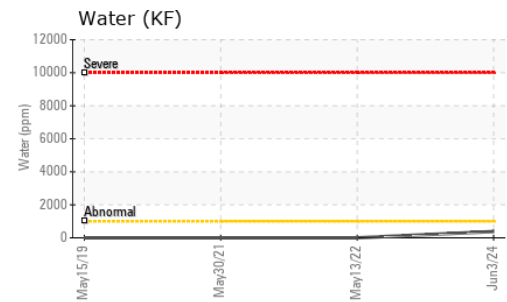
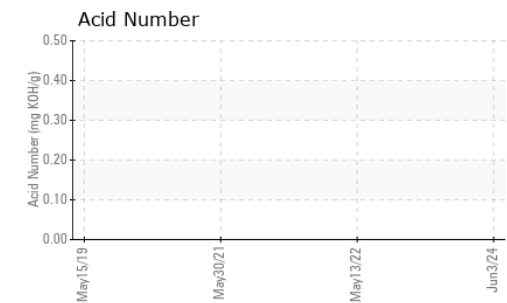
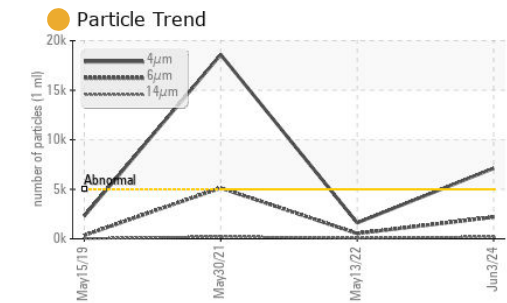
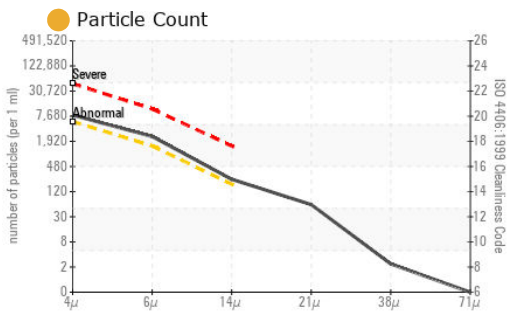
There is a light amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

| | | | | | | |
|------------------|--------|---------------|-----------|-----------------|----------|----------|
| Silicon | ppm | ASTM D5185(m) | >20 | 0 | 0 | <1 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | 0 | <1 |
| Water | % | ASTM D6304* | >0.1 | 0.037 | --- | --- |
| ppm Water | ppm | ASTM D6304* | >1000 | 380 | --- | --- |
| Particles >4µm | | ASTM D7647 | >5000 | 7119 | 1614 | 18592 |
| Particles >6µm | | ASTM D7647 | >1300 | 2196 | 539 | 5136 |
| Particles >14µm | | ASTM D7647 | >160 | 209 | 75 | 225 |
| Particles >21µm | | ASTM D7647 | >40 | 52 | 18 | 30 |
| Particles >38µm | | ASTM D7647 | >10 | 2 | 0 | 1 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 20/18/15 | 18/16/13 | 21/20/15 |
| Silt | scalar | Visual* | NONE | NONE | NONE | NONE |
| Debris | scalar | Visual* | NONE | NONE | NONE | VLITE |
| 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* | >0.1 | 1% | NEG | NEG |

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|---------------|------|--------------|------|------|
| Sodium | ppm | ASTM D5185(m) | | <1 | 0 | <1 |
| Boron | ppm | ASTM D5185(m) | | <1 | <1 | <1 |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Manganese | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | | <1 | 0 | 0 |
| Calcium | ppm | ASTM D5185(m) | | 42 | 44 | 50 |
| Phosphorus | ppm | ASTM D5185(m) | | 333 | 354 | 343 |
| Zinc | ppm | ASTM D5185(m) | | 419 | 425 | 451 |
| Sulfur | ppm | ASTM D5185(m) | | 684 | 700 | 770 |
| Acid Number (AN) | mg KOH/g | ASTM D974* | | 0.47 | --- | --- |
| Visc @ 40°C | cSt | ASTM D7279(m) | 64.6 | 66.2 | 67.0 | 66.2 |



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0806196 **Received** : 13 Jun 2024
Lab Number : 02641703 **Tested** : 14 Jun 2024
Unique Number : 5799242 **Diagnosed** : 14 Jun 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: KF, TAN Auto, TAN Man)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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