



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

Area
CGL
Machine Id
CGL
Component
Hydraulic System
Fluid
CHEVRON HYDRAULIC AW ISO 68 (125 GAL)

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 | | MW0050817 | MW0050731 | MW0025401 |
| Sample Date | | Client Info | | 10 Jan 2024 | 10 Oct 2023 | 20 Sep 2022 |
| Machine Age | hrs | Client Info | | 767 | 38414 | 32055 |
| Oil Age | hrs | Client Info | | 767 | 38414 | 34159 |
| Filter Age | hrs | Client Info | | 767 | 38414 | 34159 |
| Oil Changed | | Client Info | | N/A | Not Changd | N/A |
| Filter Changed | | Client Info | | N/A | Not Changd | N/A |
| Sample Status | | | | ABNORMAL | ABNORMAL | ABNORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >20 | 3 | 2 | 1 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | <1 | 0 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | 2 | 2 | <1 |
| Lead | ppm | ASTM D5185m | >20 | <1 | <1 | <1 |
| Copper | ppm | ASTM D5185m | >20 | <1 | 1 | <1 |
| Tin | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

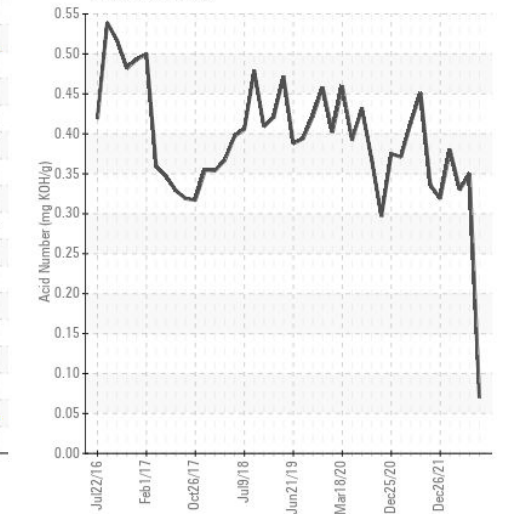
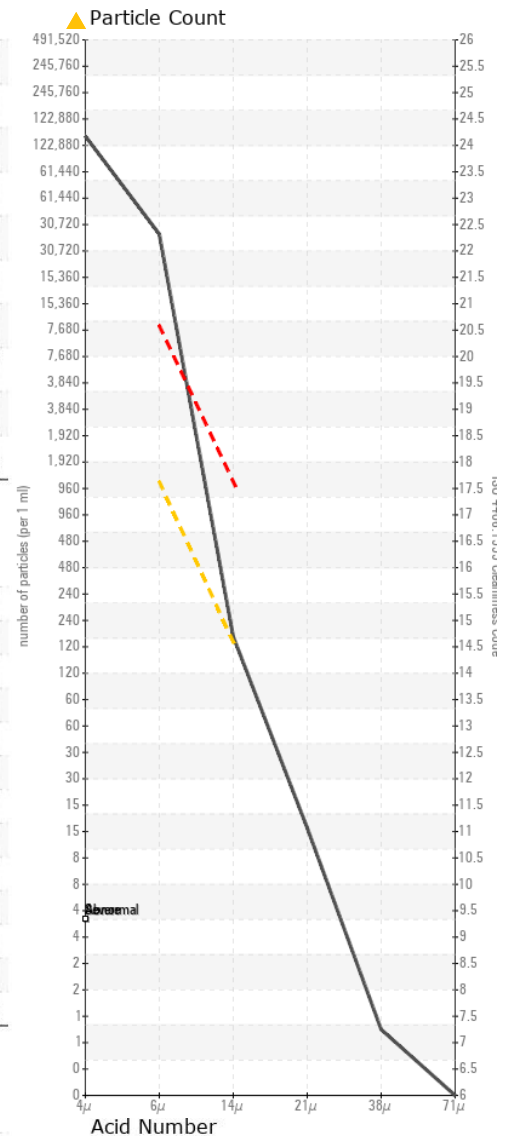
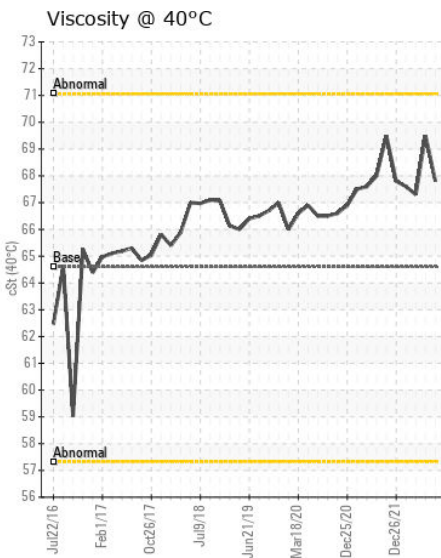
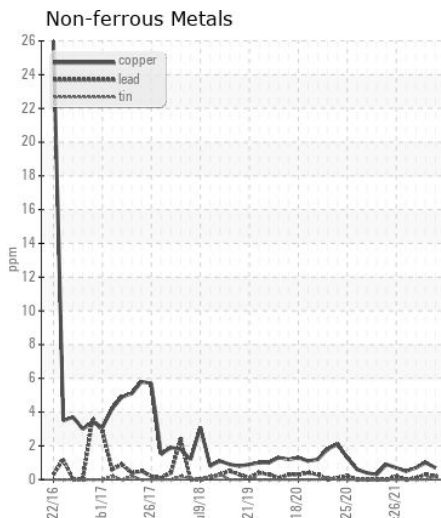
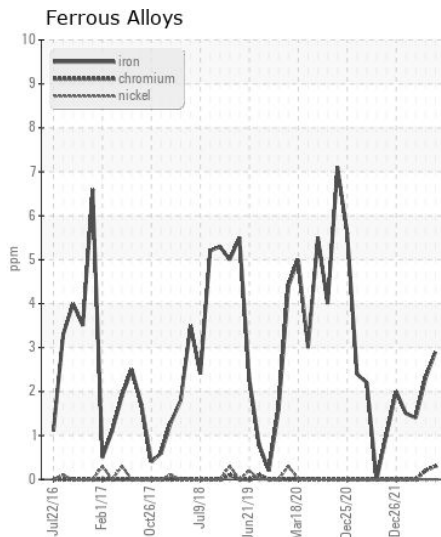
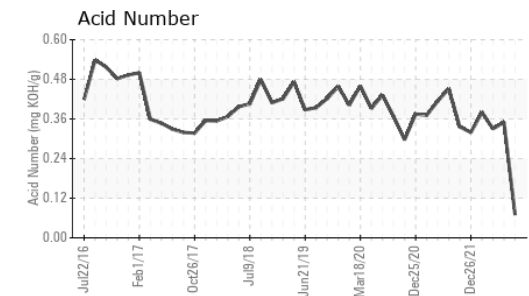
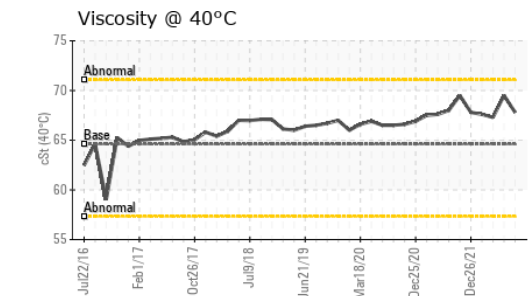
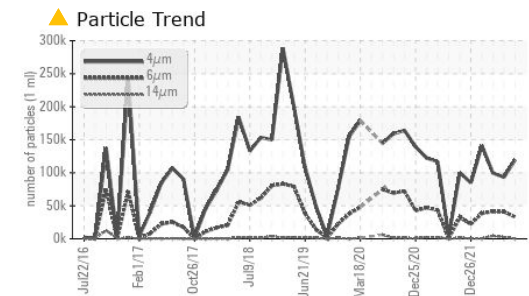
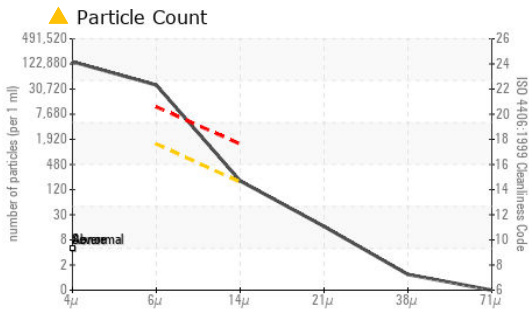
There is a high amount of particulates present in the oil.

| | | | | | | |
|------------------|--------|--------------|----------|-------------------|------------|------------|
| Silicon | ppm | ASTM D5185m | >15 | 0 | 0 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 1 | <1 |
| Water | | WC Method | >0.05 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | | 119573 | 93309 | 99435 |
| Particles >6µm | | ASTM D7647 | >1300 | ▲ 33189 | ▲ 40722 | ▲ 41400 |
| Particles >14µm | | ASTM D7647 | >160 | ▲ 171 | ▲ 2522 | ▲ 4440 |
| Particles >21µm | | ASTM D7647 | >40 | 14 | ▲ 230 | ▲ 715 |
| Particles >38µm | | ASTM D7647 | >10 | 1 | 1 | 7 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 1 |
| Oil Cleanliness | | ISO 4406 (c) | >-/17/14 | ▲ 24/22/15 | ▲ 24/23/19 | ▲ 24/23/19 |
| 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 | >0.05 | NEG | 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 D5185m | | 0 | 0 | 0 |
| Boron | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | 0 | 3 | 0 |
| Molybdenum | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Manganese | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Calcium | ppm | ASTM D5185m | | 42 | 43 | 40 |
| Phosphorus | ppm | ASTM D5185m | | 265 | 329 | 319 |
| Zinc | ppm | ASTM D5185m | | 429 | 414 | 427 |
| Sulfur | ppm | ASTM D5185m | | 719 | 772 | 969 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.07 | 0.35 | 0.33 |
| Visc @ 40°C | cSt | ASTM D445 | 64.6 | 67.8 | 69.5 | 67.3 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0050817
Lab Number : 06074641
Unique Number : 10856732
Test Package : MAR 2

AMERICAN RIVER TRANSPORTATION CO.
 P.O. BOX 2889
 ST. LOUIS, MO
 US 63111
 Contact: JOSH BARRETT
 joshua.barrett@adm.com
 T:
 F: (314)481-5278

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)