



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

Area
RICK HARNACK
Machine Id
[RICK HARNACK] 007 685578-7
Component
Port Genset
Fluid
CHEVRON DELO 400 XLE 15W40 (7 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | MW0068897 | MW06219040 | MW0068292 |
| Sample Date | | Client Info | | 01 Jul 2024 | 13 Jun 2024 | 01 Apr 2024 |
| Machine Age | hrs | Client Info | | 22431 | 22400 | 21535 |
| Oil Age | hrs | Client Info | | 31 | 394 | 170 |
| Filter Age | hrs | Client Info | | 31 | 0 | 170 |
| Oil Changed | | Client Info | | Changed | N/A | Changed |
| Filter Changed | | Client Info | | Changed | N/A | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >50 | 4 | 7 | 3 |
| Chromium | ppm | ASTM D5185m | >4 | 0 | <1 | 0 |
| Nickel | ppm | ASTM D5185m | >2 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185m | | <1 | 2 | 1 |
| Silver | ppm | ASTM D5185m | >5 | 0 | <1 | 0 |
| Aluminum | ppm | ASTM D5185m | >12 | 3 | 3 | 4 |
| Lead | ppm | ASTM D5185m | >17 | 0 | 2 | <1 |
| Copper | ppm | ASTM D5185m | >70 | 0 | 1 | 0 |
| Tin | ppm | ASTM D5185m | >15 | <1 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

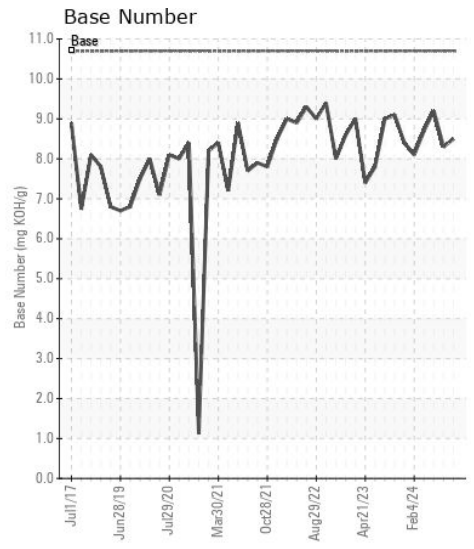
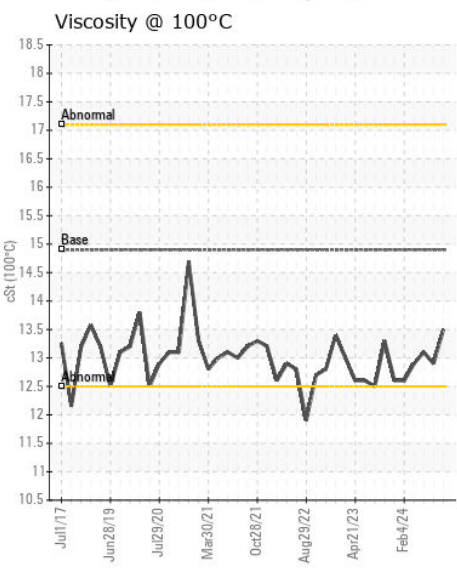
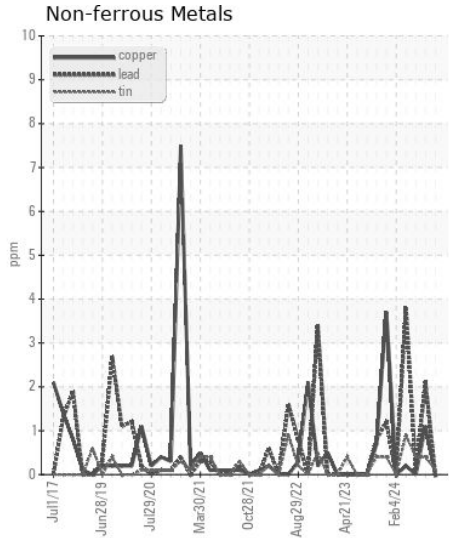
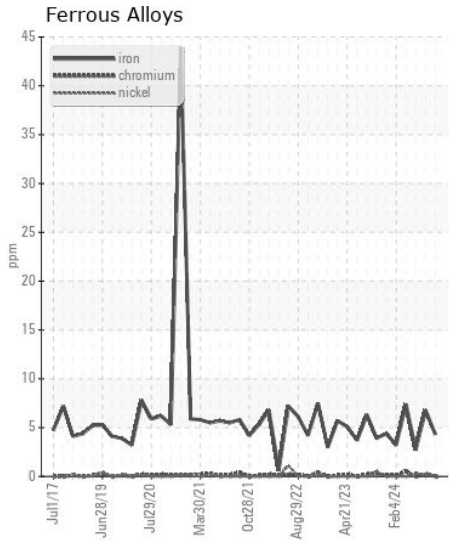
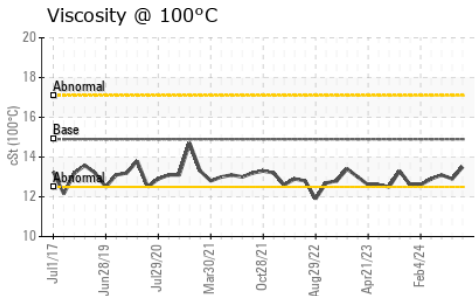
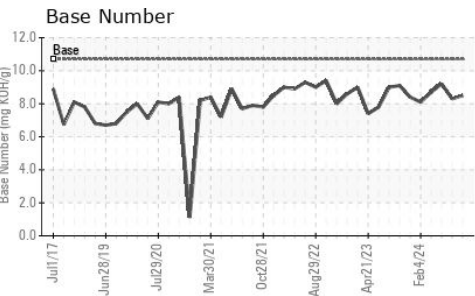
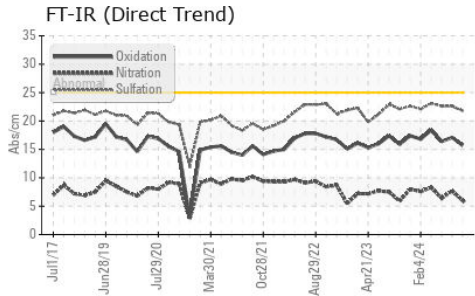
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >25 | 5 | 5 | 5 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 4 | 1 |
| Fuel | | WC Method | >4.0 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | | 0.1 | 0.1 | 0.1 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 6.0 | 7.7 | 6.4 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 21.8 | 22.6 | 22.6 |
| 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 | >0.1 | NEG | NEG | NEG |

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|-------------|------|-------------|------|------|
| Sodium | ppm | ASTM D5185m | | 2 | <1 | 1 |
| Boron | ppm | ASTM D5185m | | 351 | 274 | 342 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 104 | 111 | 122 |
| Manganese | ppm | ASTM D5185m | | 1 | 3 | <1 |
| Magnesium | ppm | ASTM D5185m | | 565 | 681 | 716 |
| Calcium | ppm | ASTM D5185m | | 1491 | 1755 | 1543 |
| Phosphorus | ppm | ASTM D5185m | 760 | 874 | 859 | 730 |
| Zinc | ppm | ASTM D5185m | 830 | 1018 | 1051 | 861 |
| Sulfur | ppm | ASTM D5185m | 2770 | 3392 | 3473 | 3090 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 15.7 | 17.1 | 16.4 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 10.7 | 8.5 | 8.3 | 9.2 |
| Visc @ 100°C | cSt | ASTM D445 | 14.9 | 13.5 | 12.9 | 13.1 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0068897
Lab Number : 06237241
Unique Number : 11126075
Test Package : MAR 2
Received : 15 Jul 2024
Tested : 17 Jul 2024
Diagnosed : 17 Jul 2024 - Wes Davis

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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)