



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

Machine Id
AGC
Component
Port Main Engine
Fluid
CHEVRON DELO 400 XLE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | MW05774580 | MW05745136 | MW05718325 |
| Sample Date | | Client Info | | 22 Feb 2023 | 19 Jan 2023 | 14 Dec 2022 |
| Machine Age | hrs | Client Info | | 56941 | 56164 | 55348 |
| Oil Age | hrs | Client Info | | 777 | 816 | 874 |
| 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 |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >75 | 2 | 0 | 2 |
| Chromium | ppm | ASTM D5185m | >8 | <1 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | >3 | <1 | 0 | <1 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >15 | 2 | <1 | 3 |
| Lead | ppm | ASTM D5185m | >18 | 1 | 0 | 1 |
| Copper | ppm | ASTM D5185m | >80 | 0 | <1 | 1 |
| Tin | ppm | ASTM D5185m | >14 | <1 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

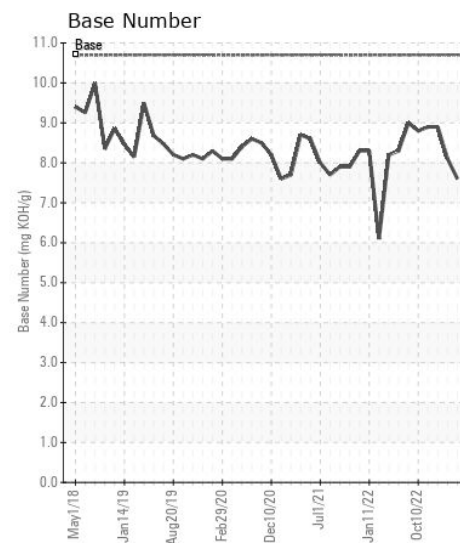
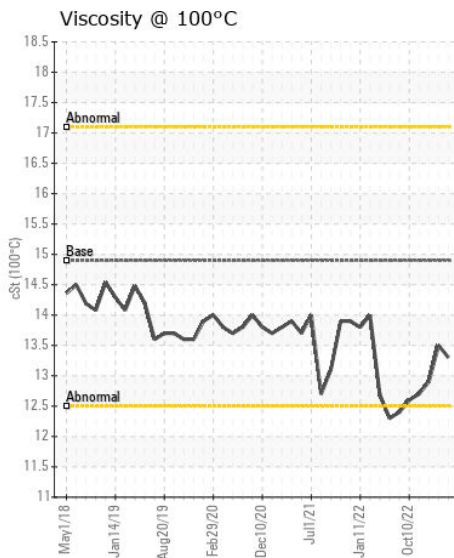
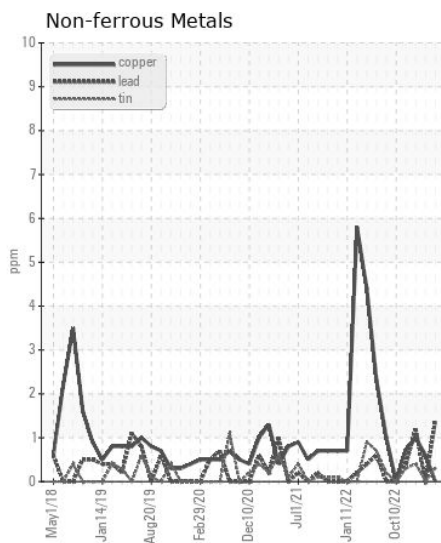
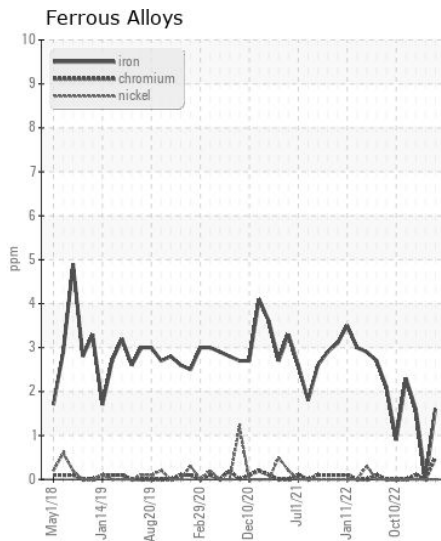
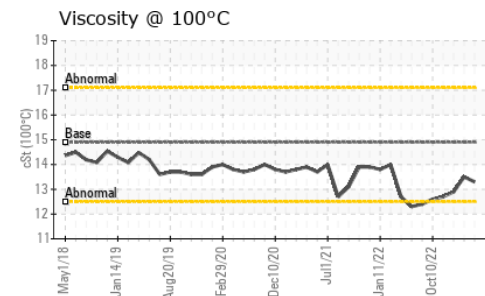
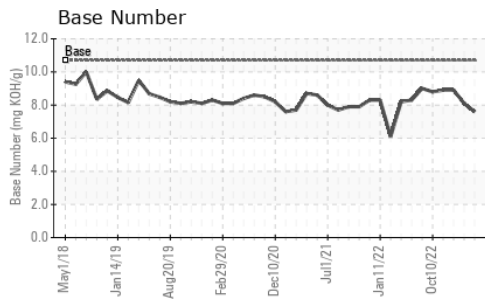
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >20 | 4 | 3 | 4 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 0 | 0 |
| 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 | 5.7 | 5.7 | 7.3 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 20.7 | 20.8 | 24.0 |
| 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 | >75 | 0 | 0 | <1 |
| Boron | ppm | ASTM D5185m | | 372 | 396 | 319 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 86 | 77 | 104 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 466 | 348 | 549 |
| Calcium | ppm | ASTM D5185m | | 1444 | 1165 | 1428 |
| Phosphorus | ppm | ASTM D5185m | 760 | 923 | 707 | 703 |
| Zinc | ppm | ASTM D5185m | 830 | 1177 | 818 | 814 |
| Sulfur | ppm | ASTM D5185m | 2770 | 3370 | 2731 | 2829 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 14.9 | 15.0 | 18.5 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 10.7 | 7.6 | 8.1 | 8.9 |
| Visc @ 100°C | cSt | ASTM D445 | 14.9 | 13.3 | 13.5 | 12.9 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW05774580
Lab Number : 05774580
Unique Number : 10349197
Test Package : MAR 2
Received : 23 Feb 2023
Tested : 24 Feb 2023
Diagnosed : 24 Feb 2023 - Don Baldrige

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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)