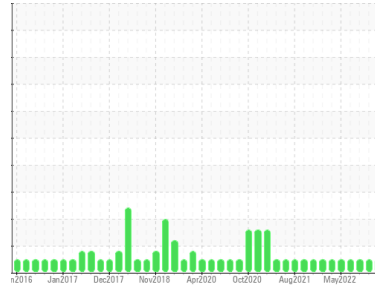




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
3579C

Component
Natural Gas Engine

Fluid
CHEVRON DELO 400 NG (48 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

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.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | GFL0089288 | GFL0056598 | GFL0052318 |
| Sample Date | Client Info | | 25 Aug 2023 | 20 Mar 2023 | 09 Aug 2022 |
| Machine Age | hrs | Client Info | 5219 | 4132 | 2834 |
| Oil Age | hrs | Client Info | 0 | 1377 | 481 |
| Oil Changed | Client Info | | Changed | Changed | Changed |
| Sample Status | | | NORMAL | NORMAL | NORMAL |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|-----------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >50 | 18 | 11 | 7 |
| Chromium | ppm | ASTM D5185m >4 | 2 | 2 | <1 |
| Nickel | ppm | ASTM D5185m >2 | <1 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m >9 | 6 | 3 | 2 |
| Lead | ppm | ASTM D5185m >30 | 7 | 6 | 3 |
| Copper | ppm | ASTM D5185m >35 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185m >4 | <1 | 1 | <1 |
| Vanadium | ppm | ASTM D5185m | 0 | <1 | <1 |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|-----------------|-------------|----------|----------|
| Boron | ppm | ASTM D5185m | 14 | 10 | 11 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 64 | 56 | 51 |
| Manganese | ppm | ASTM D5185m | 1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 658 | 606 | 531 |
| Calcium | ppm | ASTM D5185m | 1932 | 1785 | 1542 |
| Phosphorus | ppm | ASTM D5185m 800 | 860 | 752 | 655 |
| Zinc | ppm | ASTM D5185m 880 | 1116 | 1051 | 919 |
| Sulfur | ppm | ASTM D5185m | 3259 | 3106 | 2317 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-------------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m >+100 | 11 | 5 | 12 |
| Sodium | ppm | ASTM D5185m | 8 | 7 | 7 |
| Potassium | ppm | ASTM D5185m >20 | <1 | 1 | 2 |

INFRA-RED

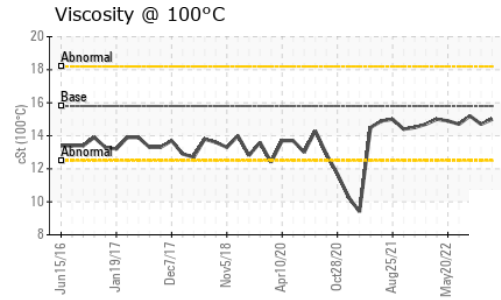
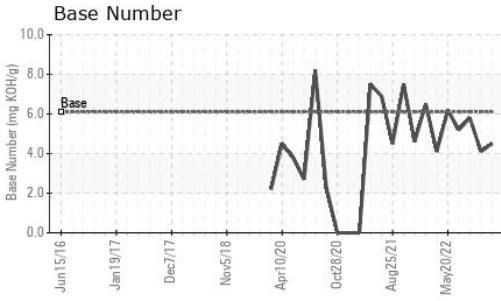
| | method | limit/base | current | history1 | history2 |
|-----------|----------|-----------------|-------------|----------|----------|
| Soot % | % | *ASTM D7844 | 0 | 0.1 | 0 |
| Nitration | Abs/cm | *ASTM D7624 >20 | 11.5 | 12.2 | 11.5 |
| Sulfation | Abs/.1mm | *ASTM D7415 >30 | 24.3 | 24.8 | 22.3 |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|-----------------|-------------|----------|----------|
| Oxidation | Abs/.1mm | *ASTM D7414 >25 | 20.8 | 20.0 | 19.8 |
| Base Number (BN) | mg KOH/g | ASTM D2896 6.1 | 4.5 | 4.1 | 5.8 |



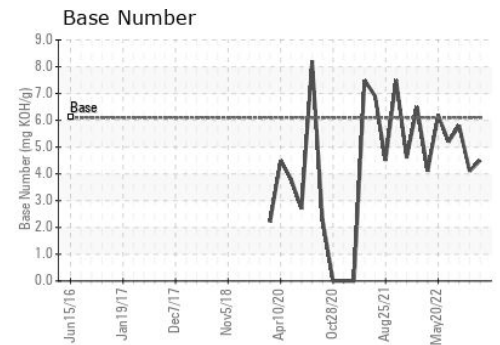
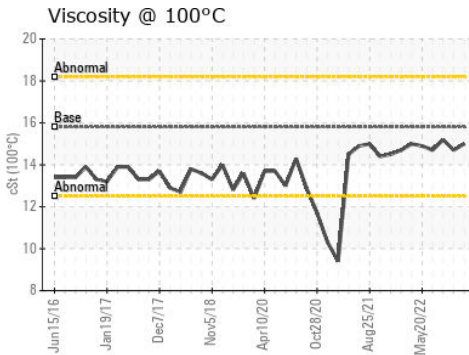
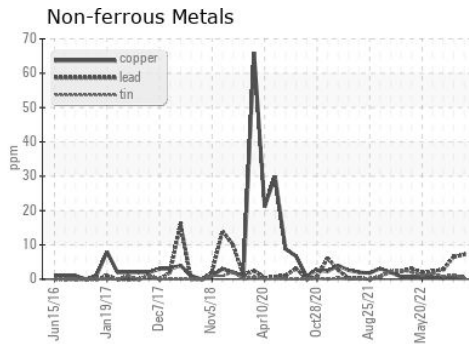
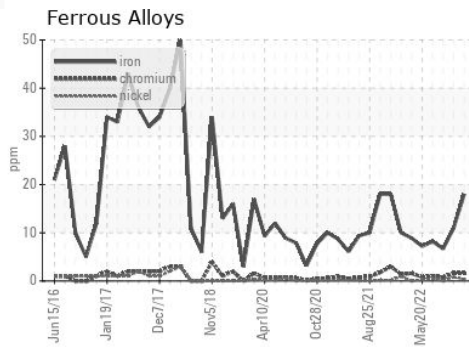
OIL ANALYSIS REPORT



| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | 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 | >0.1 | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 15.8 | 15.0 | 14.7 |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : GFL0089288
 Lab Number : 05936008
 Unique Number : 10621279
 Test Package : FLEET

GFL Environmental - 001 - Raleigh(CNG)
 3741 Conquest Drive
 Garner, NC
 US 27529
 Contact: Craig Johnson
 craig.johnson@gflenv.com
 T: (919)662-7100
 F: (919)662-7130

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)