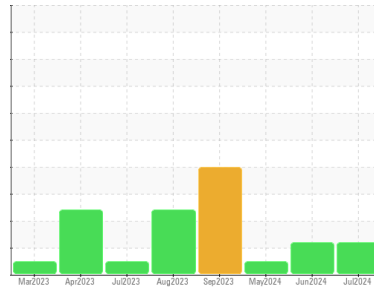




OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION



Machine Id

HPCG1

Component

Propane Engine

Fluid

PETRO CANADA SENTRON LD 8000 (--- GAL)

DIAGNOSIS

▲ Recommendation

The oil is near the end of its useful service life, recommend schedule an oil change. 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 level is low. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | WC0793764 | WC0793762 | WC0793758 |
| Sample Date | Client Info | | 03 Jul 2024 | 03 Jun 2024 | 02 May 2024 |
| Machine Age | hrs | Client Info | 13348 | 12650 | 11910 |
| Oil Age | hrs | Client Info | 2914 | 2216 | 1476 |
| Oil Changed | Client Info | | Not Chngd | Not Chngd | Changed |
| Sample Status | | | ABNORMAL | ABNORMAL | NORMAL |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.1 | NEG | NEG | NEG |

WEAR METALS

| | method | limit/base | current | history1 | history2 | |
|----------|--------|-------------|---------|----------|----------|----|
| Iron | ppm | ASTM D5185m | >100 | 5 | 2 | 4 |
| Chromium | ppm | ASTM D5185m | >25 | 0 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | >5 | 0 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185m | >5 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 2 | 2 | 2 |
| Lead | ppm | ASTM D5185m | >25 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185m | >35 | 0 | <1 | <1 |
| Tin | ppm | ASTM D5185m | >8 | 2 | 2 | 2 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | <1 |

ADDITIVES

| | method | limit/base | current | history1 | history2 | |
|------------|--------|-------------|---------|-------------|----------|------|
| Boron | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | 1 |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 17 | 8 | 9 |
| Calcium | ppm | ASTM D5185m | 1351 | 1543 | 1600 | 1497 |
| Phosphorus | ppm | ASTM D5185m | 302 | 307 | 328 | 300 |
| Zinc | ppm | ASTM D5185m | 358 | 384 | 403 | 384 |
| Sulfur | ppm | ASTM D5185m | 2758 | 3355 | 3644 | 3391 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 | |
|-----------|--------|-------------|---------|----------|----------|---|
| Silicon | ppm | ASTM D5185m | >50 | 2 | 2 | 2 |
| Sodium | ppm | ASTM D5185m | | 3 | 3 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 2 | 3 |

INFRA-RED

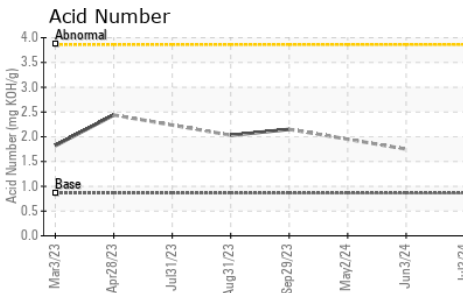
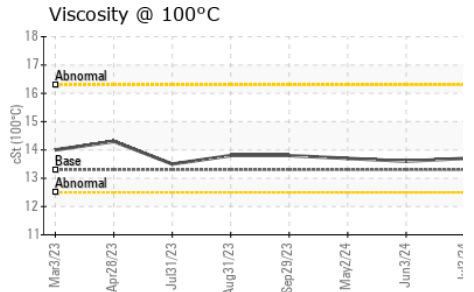
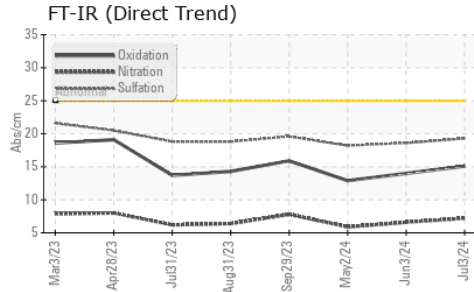
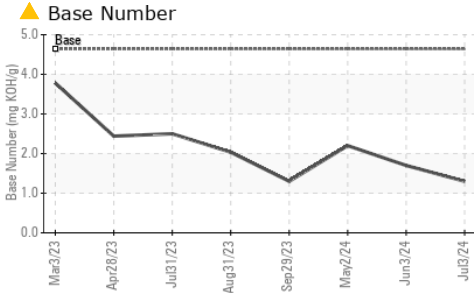
| | method | limit/base | current | history1 | history2 | |
|-----------|----------|-------------|---------|-------------|----------|------|
| Soot % | % | *ASTM D7844 | | 0 | 0 | 0 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 7.2 | 6.6 | 5.9 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 19.3 | 18.6 | 18.2 |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 | |
|------------------|----------|-------------|---------|--------------|----------|------|
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 15.1 | 14.0 | 12.9 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.86 | --- | 1.75 | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 4.64 | ▲ 1.3 | ▲ 1.7 | 2.2 |



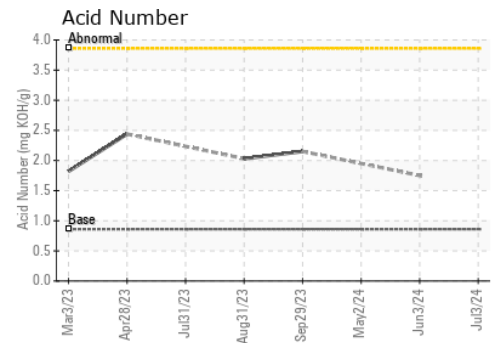
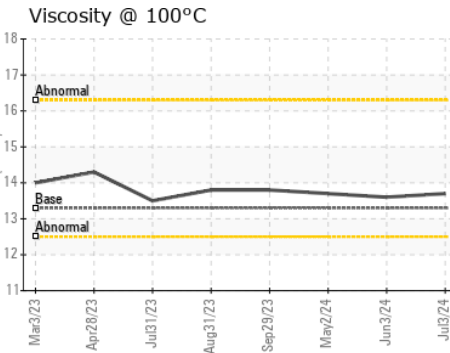
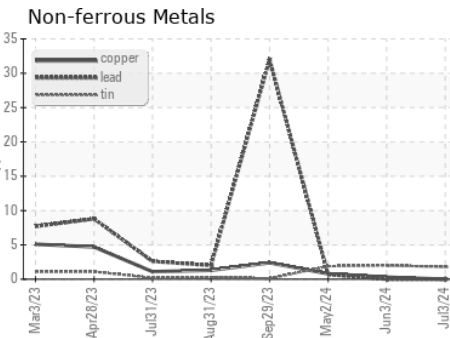
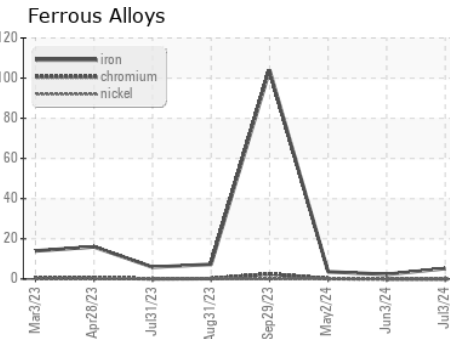
OIL ANALYSIS REPORT



| 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 | 13.3 | 13.7 | 13.6 |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0793764
Lab Number : 06237289
Unique Number : 11126123
Test Package : FLEET

Received : 15 Jul 2024
Tested : 18 Jul 2024
Diagnosed : 18 Jul 2024 - Jonathan Hester

ACCURATE SOLUTIONS

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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)