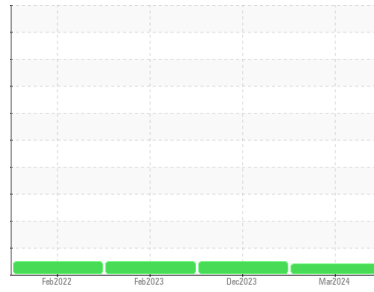


OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id
CHEVROLET 004209
 Component
Gasoline Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (6 QTS)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | | PCA0091634 | PCA0091661 | PCA0045461 |
| Sample Date | Client Info | | | 01 Mar 2024 | 07 Dec 2023 | 16 Feb 2023 |
| Machine Age | mls | Client Info | | 19130 | 18398 | 13636 |
| Oil Age | mls | Client Info | | 19130 | 4762 | 13636 |
| Oil Changed | Client Info | | | Changed | Changed | Changed |
| Sample Status | | | | ATTENTION | NORMAL | NORMAL |

| CONTAMINATION | | method | limit/base | current | history1 | history2 |
|---------------|-----------|--------|------------|----------------|----------|----------|
| Fuel | WC Method | >4.0 | | <1.0 | <1.0 | <1.0 |
| Water | WC Method | >0.2 | | NEG | NEG | NEG |
| Glycol | WC Method | | | NEG | NEG | NEG |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m | >150 | 40 | 21 | 16 |
| Chromium | ppm | ASTM D5185m | >20 | 2 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >5 | 1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | 1 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >40 | 8 | 2 | 2 |
| Lead | ppm | ASTM D5185m | >50 | 3 | 0 | 3 |
| Copper | ppm | ASTM D5185m | >155 | 58 | 120 | 277 |
| Tin | ppm | ASTM D5185m | >10 | 0 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |

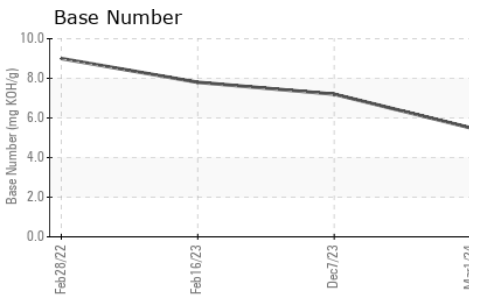
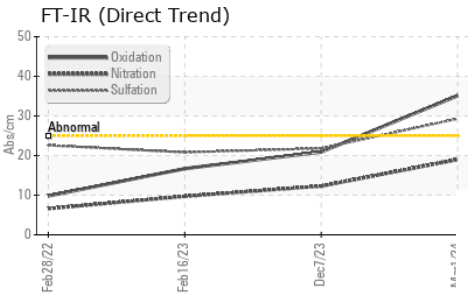
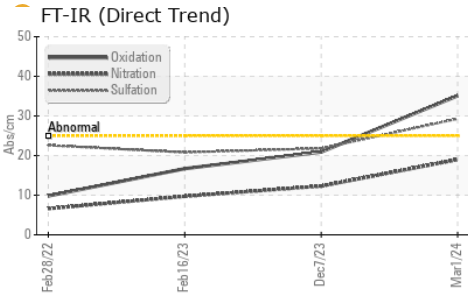
| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | 2 | 4 | 3 | 13 |
| Barium | ppm | ASTM D5185m | 0 | <1 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 50 | 62 | 62 | 70 |
| Manganese | ppm | ASTM D5185m | 0 | 2 | <1 | 2 |
| Magnesium | ppm | ASTM D5185m | 950 | 961 | 876 | 845 |
| Calcium | ppm | ASTM D5185m | 1050 | 1161 | 969 | 1091 |
| Phosphorus | ppm | ASTM D5185m | 995 | 928 | 703 | 802 |
| Zinc | ppm | ASTM D5185m | 1180 | 1252 | 1092 | 1088 |
| Sulfur | ppm | ASTM D5185m | 2600 | 2693 | 1850 | 2456 |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|-----------|----------|----------|
| Silicon | ppm | ASTM D5185m | >30 | 12 | 11 | 10 |
| Sodium | ppm | ASTM D5185m | >400 | 5 | 0 | 2 |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 2 | 2 |

| INFRA-RED | | method | limit/base | current | history1 | history2 |
|-----------|----------|-------------|------------|-------------|----------|----------|
| Soot % | % | *ASTM D7844 | | 0.1 | 0.1 | 0.1 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 19.0 | 12.3 | 9.7 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 29.3 | 21.8 | 20.8 |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|-------------------|----------|-------------|------------|-------------|----------|----------|
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 35.1 | 20.9 | 16.7 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 5.5 | 7.2 | 7.8 |

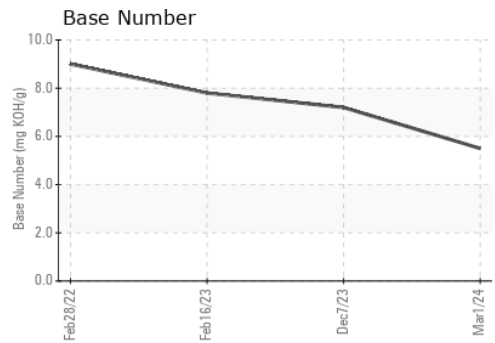
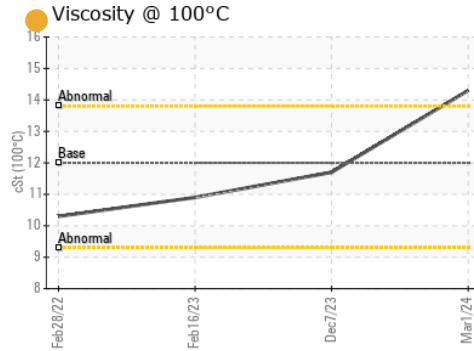
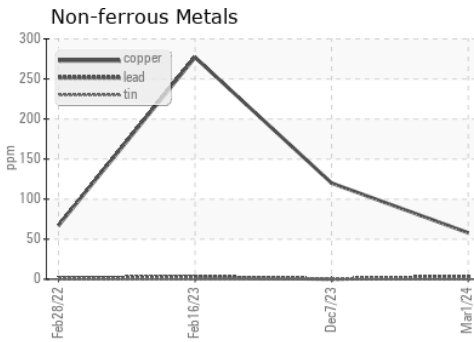
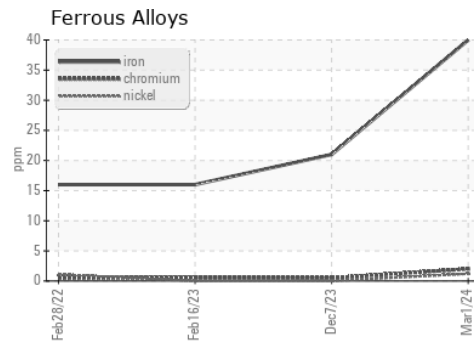
OIL ANALYSIS REPORT



| 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 | >0.2 | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|--|----------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 12.00 ● 14.3 | 11.7 | 10.9 |

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0091634 **Received** : 20 Jun 2024
Lab Number : 06215296 **Tested** : 21 Jun 2024
Unique Number : 11088160 **Diagnosed** : 21 Jun 2024 - Sean Felton
Test Package : FLEET

ICSB370 - Alton
 4525 North Alby Road
 Godfrey, IL
 US 62035
 Contact: Chad Ingold
 c.ingold@illinois-central.com
 T: (618)466-5400
 F:

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)