

OIL ANALYSIS REPORT

{UNASSIGNED}
a51076

Diesel Engine

PETRO CANADA 15W40 (--- GAL)

Sample Rating Trend



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.

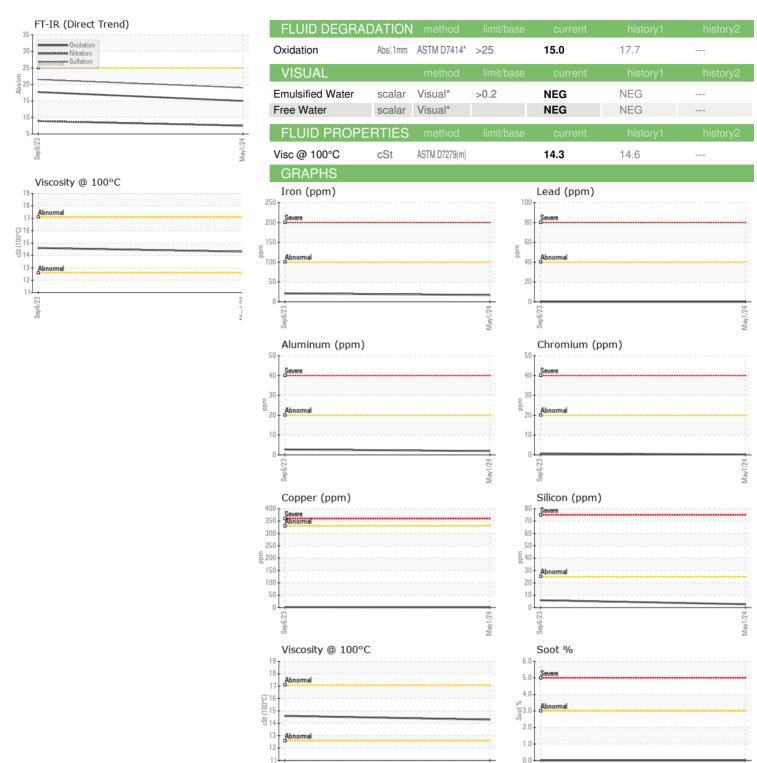
Fluid Condition

The condition of the oil is acceptable for the time in service.

| | | | Sep2023 | May2024 | | |
|---------------|----------|---------------|------------|-------------|-------------|----------|
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | GFL0100573 | GFL0077003 | |
| Sample Date | | Client Info | | 01 May 2024 | 06 Sep 2023 | |
| Machine Age | hrs | Client Info | | 233386 | 223440 | |
| Oil Age | hrs | Client Info | | 0 | 0 | |
| Oil Changed | | Client Info | | Changed | N/A | |
| Sample Status | | | | NORMAL | NORMAL | |
| CONTAMINATI | ION | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | |
| Water | | WC Method | >0.2 | NEG | NEG | |
| Glycol | | WC Method | | NEG | NEG | |
| WEAR METALS | S | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185(m) | >100 | 17 | 21 | |
| Chromium | ppm | ASTM D5185(m) | >20 | <1 | <1 | |
| Nickel | ppm | ASTM D5185(m) | >4 | 0 | 0 | |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | |
| Silver | ppm | ASTM D5185(m) | >3 | 0 | 0 | |
| Aluminum | ppm | ASTM D5185(m) | >20 | 2 | 3 | |
| Lead | ppm | ASTM D5185(m) | >40 | 0 | 0 | |
| Copper | ppm | ASTM D5185(m) | >330 | <1 | 2 | |
| Tin | ppm | ASTM D5185(m) | >15 | 0 | 0 | |
| Antimony | ppm | ASTM D5185(m) | | 0 | 0 | |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | |
| Beryllium | ppm | ASTM D5185(m) | | 0 | 0 | |
| Cadmium | ppm | ASTM D5185(m) | | 0 | 0 | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185(m) | | 5 | 19 | |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 | |
| Molybdenum | ppm | ASTM D5185(m) | | 63 | 81 | |
| Manganese | ppm | ASTM D5185(m) | | <1 | <1 | |
| Magnesium | ppm | ASTM D5185(m) | | 933 | 397 | |
| Calcium | ppm | ASTM D5185(m) | | 1190 | 1816 | |
| Phosphorus | ppm | ASTM D5185(m) | | 996 | 1073 | |
| Zinc | ppm | ASTM D5185(m) | | 1204 | 1249 | |
| Sulfur | ppm | ASTM D5185(m) | | 2487 | 2746 | |
| Lithium | ppm | ASTM D5185(m) | | <1 | <1 | |
| CONTAMINAN | TS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185(m) | >25 | 3 | 6 | |
| Sodium | ppm | ASTM D5185(m) | | 2 | 3 | |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | 1 | |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | ASTM D7844* | >3 | 0 | 0 | |
| Nitration | Abs/cm | ASTM D7624* | >20 | 7.5 | 8.9 | |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 19.0 | 21.5 | |



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: GFL0100573 Lab Number : 02634019

Unique Number : 5775172 Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 575 - Squamish Hauling Received : 08 May 2024 **Tested** : 08 May 2024

Diagnosed : 08 May 2024 - Wes Davis

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

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