

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

(YA134217) 10753C Component

Natural Gas Engine

Fluid PETRO CANADA DURON GEO LD 15W40 (28 QTS)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

🔺 Wear

Area

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

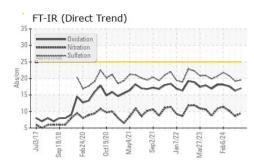
Fluid Condition

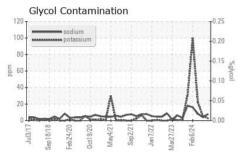
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

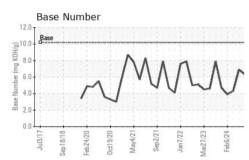
| 8 QTS) | 12017 Sep2018 Feb2020 Oct2020 Min/2021 Sep2021 Jan2 | | | | 022 Mw2023 Feb2024 | | |
|--------------------|---|-------------|-------------|-------------|--------------------|-------------|--|
| SAMPLE INFOR | | method | limit/base | current | biotopy1 | history | |
| | | | IIIIII/Dase | | history1 | history2 | |
| Sample Number | | Client Info | | GFL0125714 | GFL0118400 | GFL0112917 | |
| Sample Date | | Client Info | | 16 Jul 2024 | 30 May 2024 | 07 May 2024 | |
| Nachine Age | hrs | Client Info | | 6764 | 6764 | 6764 | |
| Dil Age | hrs | Client Info | | 290 | 172 | 579 | |
| Dil Changed | | Client Info | | N/A | N/A | N/A | |
| Sample Status | | | | ABNORMAL | ABNORMAL | ABNORMAL | |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 | |
| Vater | | WC Method | >0.1 | NEG | NEG | NEG | |
| WEAR METAL | S | method | limit/base | current | history1 | history2 | |
| ron | ppm | ASTM D5185m | >50 | 8 | 9 | 9 | |
| Chromium | ppm | ASTM D5185m | >4 | 1 | 1 | 1 | |
| lickel | ppm | ASTM D5185m | >2 | <1 | 0 | 0 | |
| ītanium | ppm | ASTM D5185m | | <1 | <1 | 0 | |
| Silver | ppm | ASTM D5185m | >3 | 0 | <1 | 0 | |
| Aluminum | ppm | ASTM D5185m | >9 | 2 | 2 | 1 | |
| ead | ppm | ASTM D5185m | >30 | 0 | 2 | 1 | |
| Copper | ppm | ASTM D5185m | >35 | <u> </u> | 6 8 | <u> </u> | |
| īn | ppm | ASTM D5185m | >4 | 0 | <1 | 0 | |
| /anadium | ppm | ASTM D5185m | | 0 | <1 | 0 | |
| Cadmium | ppm | ASTM D5185m | | 0 | <1 | 0 | |
| ADDITIVES | | method | limit/base | current | history1 | history2 | |
| Boron | ppm | ASTM D5185m | 50 | 15 | 23 | 4 | |
| Barium | ppm | ASTM D5185m | 5 | 0 | 0 | 0 | |
| Nolybdenum | ppm | ASTM D5185m | 50 | 49 | 52 | 48 | |
| <i>l</i> langanese | ppm | ASTM D5185m | 0 | 2 | <1 | <1 | |
| lagnesium | ppm | ASTM D5185m | 560 | 572 | 630 | 532 | |
| Calcium | ppm | ASTM D5185m | 1510 | 1478 | 1737 | 1596 | |
| Phosphorus | ppm | ASTM D5185m | 780 | 754 | 922 | 694 | |
| Zinc | ppm | ASTM D5185m | 870 | 938 | 1045 | 939 | |
| Sulfur | ppm | ASTM D5185m | 2040 | 2660 | 3029 | 2766 | |
| CONTAMINAN | ITS | method | limit/base | current | history1 | history2 | |
| Silicon | ppm | ASTM D5185m | >+100 | 4 | 4 | 3 | |
| Sodium | ppm | ASTM D5185m | | 8 | 4 | 8 | |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 5 | 22 | |
| INFRA-RED | | method | limit/base | current | history1 | history2 | |
| Soot % | % | *ASTM D7844 | | 0 | 0 | 0 | |
| Vitration | Abs/cm | *ASTM D7624 | >20 | 9.5 | 8.6 | 10.2 | |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 19.5 | 19.2 | 20.8 | |
| FLUID DEGRA | | method | limit/base | current | history1 | history2 | |
| | AL / 4 | | 05 | 4 = 0 | 10.0 | 17.6 | |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 17.0 | 16.3 | 0.11 | |

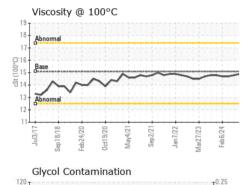


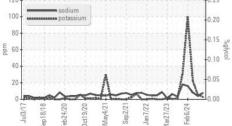
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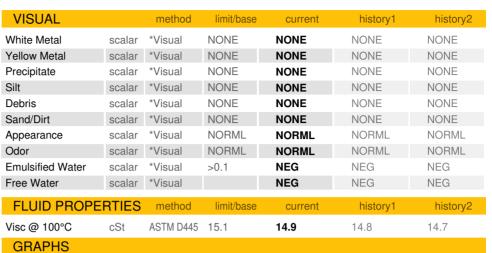




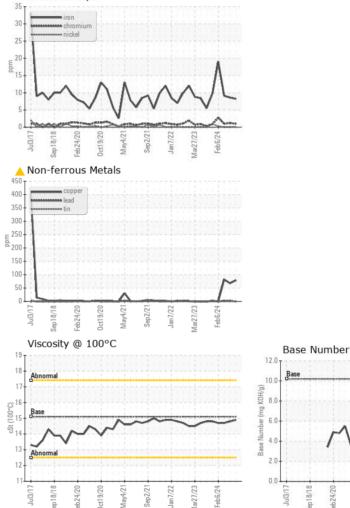


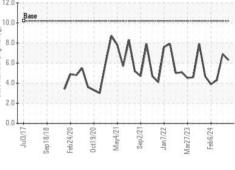






Ferrous Alloys





-eb24/20 Mar27/23 Sep 18/18 Feb6/24 Mar27/23 Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 017 - Durham Sample No. : GFL0125714 Received : 17 Jul 2024 148 Stone Park Court Lab Number : 06238777 Tested : 18 Jul 2024 Durham, NC Diagnosed Unique Number : 11127611 : 18 Jul 2024 - Sean Felton US 27703 Test Package : FLEET (Additional Tests: Glycol) Contact: Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. bill.waring@wearcheck.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (919)596-1363 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (919)598-1852

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Submitted By: Ren - William Russel