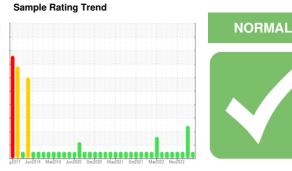


OIL ANALYSIS REPORT

(P633845) 10767C

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (30 QTS)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

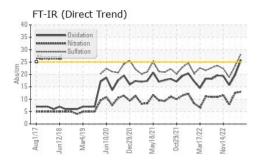
Fluid Condition

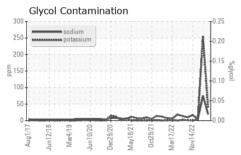
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

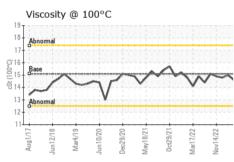
| 00 010) | | | | | | |
|---------------|---------------|--------------------|----------------|-------------|-----------------------|-------------|
| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | GFL0117977 | GFL0090124 | GFL0081020 |
| Sample Date | | Client Info | | 09 May 2024 | 10 Oct 2023 | 21 Sep 2023 |
| Machine Age | hrs | Client Info | | 18697 | 18696 | 18683 |
| Oil Age | hrs | Client Info | | 600 | 600 | 600 |
| Oil Changed | | Client Info | | Changed | N/A | Changed |
| Sample Status | | | | NORMAL | ABNORMAL | NORMAL |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| WEAR METAL | S | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >50 | 23 | 23 | 8 |
| Chromium | ppm | ASTM D5185m | >4 | 3 | 1 | <1 |
| Nickel | ppm | ASTM D5185m | >2 | 1 | 1 | <1 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | | 2 | 3 | 1 |
| Lead | ppm | ASTM D5185m | >30 | 13 | 2 | <1 |
| Copper | ppm | ASTM D5185m | | 2 | 1 | <1 |
| Tin | ppm | ASTM D5185m | >4 | 2 | <1 | <1 |
| Vanadium | | ASTM D5185m | 2 4 | <1 | <1 | 0 |
| Cadmium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| | ppm | | | | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 50 | 13 | 8 | 12 |
| Barium | ppm | ASTM D5185m | 5 | 2 | 10 | 0 |
| Molybdenum | ppm | ASTM D5185m | 50 | 66 | 58 | 55 |
| Manganese | ppm | ASTM D5185m | 0 | 1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 560 | 660 | 573 | 669 |
| Calcium | ppm | ASTM D5185m | 1510 | 1916 | 1585 | 1530 |
| Phosphorus | ppm | ASTM D5185m | 780 | 999 | 740 | 885 |
| Zinc | ppm | ASTM D5185m | 870 | 1110 | 961 | 1053 |
| Sulfur | ppm | ASTM D5185m | 2040 | 2760 | 2343 | 2729 |
| CONTAMINAN | ITS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >+100 | 8 | 6 | 4 |
| Sodium | ppm | ASTM D5185m | | 19 | △ 75 | 3 |
| Potassium | ppm | ASTM D5185m | >20 | 41 | <u>\$\times\$</u> 255 | 4 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | | 0 | 0.1 | 0 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 13.0 | 12.6 | 7.8 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 28.2 | 23.4 | 18.8 |
| | 7100/.1111111 | | | _ | | |
| FLUID DEGRAI | | method | limit/base | current | history1 | history2 |
| | | method *ASTM D7414 | limit/base | | history1 | history2 |
| FLUID DEGRAI | NOITAC | *ASTM D7414 | | current | | |

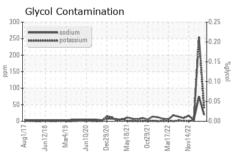


OIL ANALYSIS REPORT





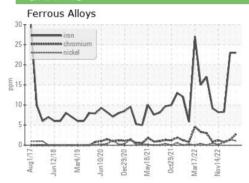


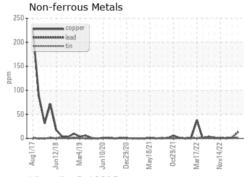


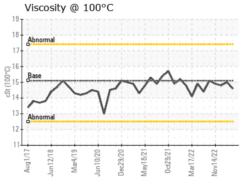
| VISUAL | | method | limit/base | current | history1 | history2 |
|-------------------------|--------|---------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | LIGHT | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.1 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |

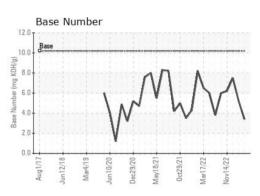
| FLUID PROPI | ERTIES | method | | | | history2 |
|--------------|--------|-----------|------|------|------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 15.1 | 14.6 | 15.0 | 14.8 |

GRAPHS













Laboratory Sample No. Lab Number : 06176517

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

: GFL0117977 Unique Number : 11022570

Received : 10 May 2024 **Tested**

: 16 May 2024 : 16 May 2024 - Jonathan Hester

GFL Environmental - 030 - Conway Myrtle Beach 3010 HWY 378 Conway, SC US 29527 Contact: ARCILIO RUEZ

aruiz@gflenv.com

Certificate 12367

Diagnosed Test Package : FLEET (Additional Tests: Glycol)

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)

F: Submitted By: TECHNICIAN ACCOUNT

T: