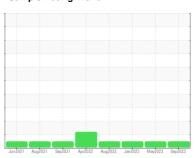


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **944019**

Component **Natural Gas Engine**

PETRO CANADA DURON GEO LD 15W40 (--- LTR)

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.

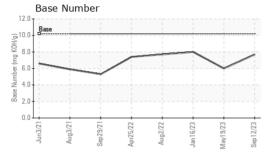
Fluid Condition

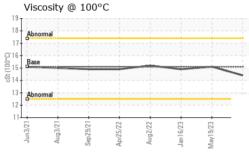
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| LIN) | | Jun2021 / | Aug2021 Sep2021 Apr20 | 22 Aug2022 Jan2023 May2023 | Sep2023 | |
|------------------|----------|-------------|-----------------------|----------------------------|-------------|-------------|
| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | GFL0089722 | GFL0077365 | GFL0066764 |
| Sample Date | | Client Info | | 12 Sep 2023 | 19 May 2023 | 16 Jan 2023 |
| Machine Age | hrs | Client Info | | 25180 | 24234 | 23175 |
| Oil Age | hrs | Client Info | | 946 | 1059 | 1213 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| WEAR METAL | S | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >50 | 4 | 7 | 5 |
| Chromium | ppm | ASTM D5185m | >4 | 0 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >2 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >9 | 3 | <1 | 2 |
| Lead | ppm | ASTM D5185m | >30 | <1 | 0 | <1 |
| Copper | ppm | ASTM D5185m | >35 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185m | >4 | <1 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 50 | 27 | 7 | 17 |
| Barium | ppm | ASTM D5185m | 5 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 50 | 51 | 52 | 54 |
| Manganese | ppm | ASTM D5185m | 0 | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 560 | 603 | 585 | 545 |
| Calcium | ppm | ASTM D5185m | 1510 | 1632 | 1705 | 1511 |
| Phosphorus | ppm | ASTM D5185m | 780 | 798 | 745 | 762 |
| Zinc | ppm | ASTM D5185m | 870 | 994 | 1004 | 926 |
| Sulfur | ppm | ASTM D5185m | 2040 | 2994 | 2684 | 2911 |
| CONTAMINAN | ITS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >+100 | 3 | 9 | 4 |
| Sodium | ppm | ASTM D5185m | | 5 | 32 | 36 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 3 | <1 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | | 0.1 | 0 | 0.1 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 8.4 | 10.4 | 8.1 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 17.9 | 20.7 | 18.7 |
| FLUID DEGRA | OITAC | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 15.1 | 17.7 | 15.7 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 10.2 | 7.7 | 6.0 | 8.0 |
| | | | | | | |



OIL ANALYSIS REPORT

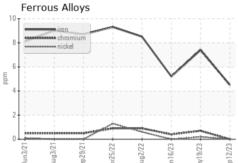


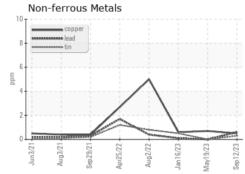


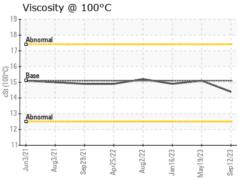
| VISUAL | | method | limit/base | current | history1 | history2 |
|-------------------------|--------|---------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | 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 |

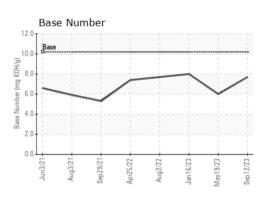
| FLUID PROPE | RTIES | method | | | | history2 |
|--------------|-------|-----------|------|------|------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 15.1 | 14.4 | 15.1 | 14.9 |

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10646988

: GFL0089722 : 05951029 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Sep 2023

Diagnosed : 16 Sep 2023 Diagnostician : Wes Davis

GFL Environmental - 882 - Gainesville

5002 SW 41st Blvd Gainesville, FL US 32608

Contact: ROBERT CLARK

robert.clark@gflenv.com T:

* - 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)

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