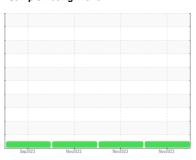


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **834015**

Component **Natural Gas Engine**

PETRO CANADA DURON GEO LD 15W40 (--- GAL

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

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.

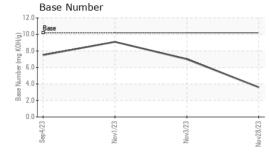
| (GAL) | | Sep 202 | 3 Nov2023 | Nov2023 No | ov2023 | |
|---------------|----------|-------------|------------|-------------|-------------|-------------|
| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | GFL0102540 | GFL0098599 | GFL0098674 |
| Sample Date | | Client Info | | 28 Nov 2023 | 03 Nov 2023 | 01 Nov 2023 |
| Machine Age | hrs | Client Info | | 482 | 354 | 335 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | Not Changd | N/A |
| Sample Status | | | | NORMAL | NORMAL | 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 | 51 | 43 | 43 |
| Chromium | ppm | ASTM D5185m | >4 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >2 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m | >3 | <1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >9 | 3 | 4 | 4 |
| Lead | ppm | ASTM D5185m | >30 | <1 | 1 | 2 |
| Copper | ppm | ASTM D5185m | >35 | 20 | 15 | 15 |
| Tin | ppm | ASTM D5185m | >4 | 2 | 2 | 1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 50 | 7 | 16 | 13 |
| Barium | ppm | ASTM D5185m | 5 | 9 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 50 | 54 | 50 | 51 |
| Manganese | ppm | ASTM D5185m | 0 | 10 | 9 | 9 |
| Magnesium | ppm | ASTM D5185m | 560 | 716 | 738 | 765 |
| Calcium | ppm | ASTM D5185m | 1510 | 1205 | 1177 | 1163 |
| Phosphorus | ppm | ASTM D5185m | 780 | 636 | 696 | 704 |
| Zinc | ppm | ASTM D5185m | 870 | 868 | 912 | 926 |
| Sulfur | ppm | ASTM D5185m | 2040 | 2267 | 2245 | 2267 |
| CONTAMINAN | ITS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >+100 | 34 | 29 | 30 |
| Sodium | ppm | ASTM D5185m | | 0 | 4 | 4 |
| Potassium | ppm | ASTM D5185m | >20 | 6 | 4 | 5 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | | 0 | 0.4 | 0.1 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 12.4 | 11.7 | 6.9 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 22.3 | 23.0 | 19.0 |
| FLUID DEGRA | DATION | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 20.7 | 22.7 | 14.8 |

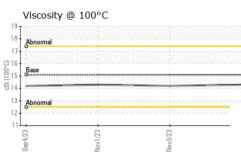
3.6

Base Number (BN) mg KOH/g ASTM D2896 10.2



OIL ANALYSIS REPORT

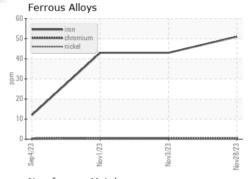


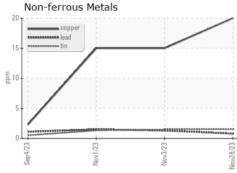


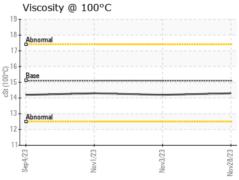
| VISUAL | | method | limit/base | current | history1 | history2 |
|-------------------------|--------|---------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate |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

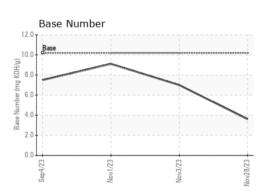
| FLUID PROP | ERIIES | method | | | riistory i | History |
|--------------|--------|-----------|------|------|------------|---------|
| Visc @ 100°C | cSt | ASTM D445 | 15.1 | 14.3 | 14.2 | 14.3 |

GRAPHS













Laboratory Sample No. Lab Number Unique Number : 10778203 Test Package : FLEET

: GFL0102540 : 06028412

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

: 07 Dec 2023 : 09 Dec 2023 Diagnostician : Wes Davis

GFL Environmental - 836 - Kansas City Hauling

7801 East Truman Road Kansas City, MO US 64126

Contact: Robert Hart rhart@gflenv.com T: (580)461-1509

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)