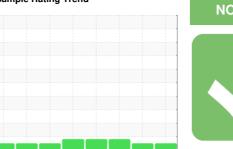


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



443000

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

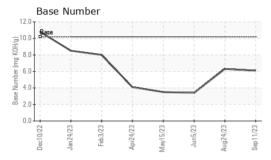
Fluid Condition

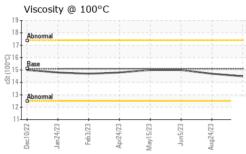
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| GEO LD 15W40 (- | LIK) | Dec2022 J | lan 2023 Feb 2023 Apr 202 | 23 May2023 Jun2023 Aug2023 | Sep2023 | |
|------------------|----------|-------------|---------------------------|----------------------------|-------------|-------------|
| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | GFL0090725 | GFL0090688 | GFL0083826 |
| Sample Date | | Client Info | | 11 Sep 2023 | 24 Aug 2023 | 05 Jun 2023 |
| Machine Age | hrs | Client Info | | 6583 | 6533 | 6145 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Not Changd |
| Sample Status | | | | NORMAL | NORMAL | ABNORMAL |
| WEAR METAL | S | method | limit/base | current | history1 | history2 |
| ron | ppm | ASTM D5185m | >50 | 13 | 11 | 40 |
| Chromium | ppm | ASTM D5185m | >4 | <1 | <1 | 2 |
| Nickel | ppm | ASTM D5185m | >2 | <1 | <1 | 1 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >9 | 4 | 3 | 4 |
| Lead | ppm | ASTM D5185m | >30 | 6 | 5 | 21 |
| Copper | ppm | ASTM D5185m | >35 | 13 | 10 | 6 0 |
| Tin | ppm | ASTM D5185m | >4 | <1 | <1 | <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 | 9 | 14 | 3 |
| Barium | ppm | ASTM D5185m | 5 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 50 | 54 | 54 | 62 |
| Manganese | ppm | ASTM D5185m | 0 | <1 | <1 | 1 |
| Magnesium | ppm | ASTM D5185m | 560 | 603 | 619 | 561 |
| Calcium | ppm | ASTM D5185m | 1510 | 1744 | 1734 | 1729 |
| Phosphorus | ppm | ASTM D5185m | 780 | 772 | 827 | 741 |
| Zinc | ppm | ASTM D5185m | | 998 | 1055 | 1022 |
| Sulfur | ppm | ASTM D5185m | 2040 | 2907 | 3173 | 2697 |
| CONTAMINAN | ITS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >+100 | 6 | 5 | 21 |
| Sodium | ppm | ASTM D5185m | | 8 | 23 | 3 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 2 | 1 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | | 0.1 | 0 | 0.1 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 10.3 | 9.7 | 14.0 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 19.2 | 19.1 | 26.8 |
| FLUID DEGRA | OATION | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 16.8 | 16.9 | 25.0 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 10.2 | 6.1 | 6.3 | 3.4 |



OIL ANALYSIS REPORT

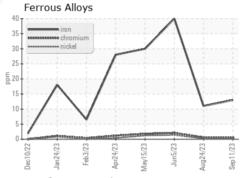


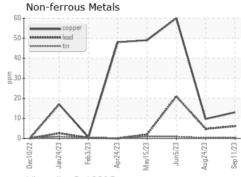


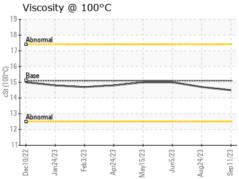
| VISUAL | | method | limit/base | current | history1 | history2 |
|-------------------------|--------|---------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate |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

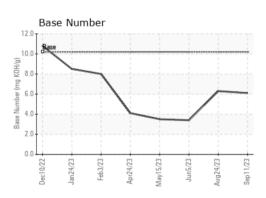
| FLUID PROPE | EKIIES | method | ilmivbase | | nistory i | nistory2 |
|--------------|--------|-----------|-----------|------|-----------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 15.1 | 14.5 | 14.7 | 15.0 |

GRAPHS













Laboratory Sample No. Lab Number Unique Number : 10647000 Test Package : FLEET

: GFL0090725 : 05951041

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 - 836 - Kansas City Hauling 7801 East Truman Road

Kansas City, MO US 64126 Contact: Robert Hart rhart@gflenv.com

T: (580)461-1509

* - 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)