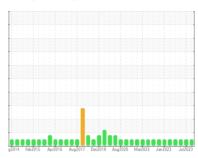


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **11102** Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (30 GAL)

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

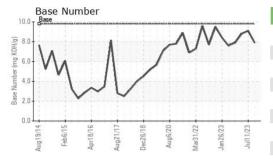
Fluid Condition

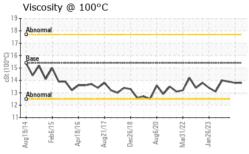
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| | | g2014 Feb201 | | ec2018 Aug2020 Mar2022 Jan20 | | |
|---------------|---------------|--------------|------------|------------------------------|-------------|-------------|
| SAMPLE INFORI | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | GFL0088404 | GFL0088389 | GFL0070060 |
| Sample Date | | Client Info | | 15 Aug 2023 | 11 Jul 2023 | 30 May 2023 |
| Machine Age | hrs | Client Info | | 61836 | 11477 | 11303 |
| Oil Age | hrs | Client Info | | 61836 | 61836 | 61836 |
| Oil Changed | | Client Info | | N/A | N/A | Not Changd |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >3.0 | <1.0 | <1.0 | <1.0 |
| Glycol | | WC Method | | NEG | NEG | NEG |
| WEAR METAL | S | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >130 | 24 | 20 | 13 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >4 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | >2 | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | <1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 2 | 2 | 2 |
| Lead | ppm | ASTM D5185m | >20 | 0 | <1 | 0 |
| Copper | ppm | ASTM D5185m | >125 | <1 | 1 | <1 |
| 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 | 0 | 0 | 2 | 1 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 5 |
| Molybdenum | ppm | ASTM D5185m | 60 | 56 | 57 | 55 |
| Manganese | ppm | ASTM D5185m | 0 | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 1010 | 934 | 989 | 842 |
| Calcium | ppm | ASTM D5185m | 1070 | 1046 | 1090 | 892 |
| Phosphorus | ppm | ASTM D5185m | 1150 | 965 | 1051 | 864 |
| Zinc | ppm | ASTM D5185m | 1270 | 1209 | 1330 | 1023 |
| Sulfur | ppm | ASTM D5185m | 2060 | 3315 | 3744 | 2847 |
| CONTAMINAN | TS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 3 | 4 | 3 |
| Sodium | ppm | ASTM D5185m | | 2 | <1 | <1 |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 2 | 2 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >6 | 8.0 | 0.6 | 0.4 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 9.2 | 8.7 | 6.9 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 19.3 | 20.1 | 19.2 |
| oundio. | AUS/. 1111111 | | | | | |
| FLUID DEGRAD | | method | limit/base | current | history1 | history2 |
| | | | limit/base | current | history1 | history2 |
| FLUID DEGRAE | DATION | method | >25 | | • | , |



OIL ANALYSIS REPORT

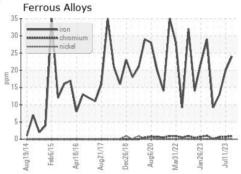


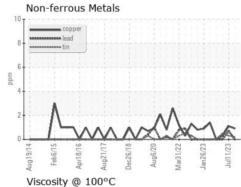


| VISUAL | | method | limit/base | current | history1 | history2 |
|-------------------------|--------|---------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | 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 | >0.2 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |

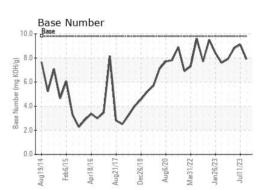
| FLUID PROPE | RTIES | method | | | | history2 |
|--------------|-------|-----------|------|------|------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 13.8 | 13.8 | 13.9 |

GRAPHS













Certificate L2367

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

: GFL0088404 : 05928600

: 10608547

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Aug 2023 Diagnosed : 20 Aug 2023

Diagnostician : Wes Davis

GFL Environmental - 084 - Clarksville 699 Jack Miller Boulevard

Clarksville, TN US 37042

Contact: ROBERT THIBAULT

robert.thibault@gflenv.com

T: (931)552-7276 F: (931)572-9674

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)