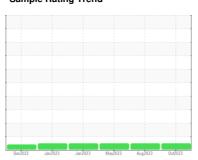


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id
117M
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (--- GAL)

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

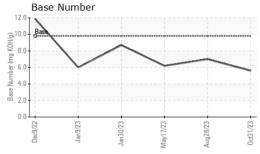
Fluid Condition

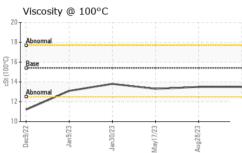
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

|)N SHP 15W40 (| - GAL) | Dec2022 | Jan2023 Jan2023 | May2023 Aug2023 | Oct2023 | |
|------------------|----------|-------------|-----------------|-----------------|-------------|-------------|
| SAMPLE INFORI | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | GFL0092790 | GFL0080825 | GFL0080734 |
| Sample Date | | Client Info | | 31 Oct 2023 | 28 Aug 2023 | 17 May 2023 |
| Machine Age | hrs | Client Info | | 15699 | 15290 | 14527 |
| Oil Age | hrs | Client Info | | 14936 | 15290 | 600 |
| Oil Changed | | Client Info | | N/A | Not Changd | Changed |
| 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 | >120 | 19 | 19 | 20 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >5 | <1 | <1 | 2 |
| Titanium | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | <1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 3 | 5 | 5 |
| Lead | ppm | ASTM D5185m | >40 | 2 | 0 | 3 |
| Copper | ppm | ASTM D5185m | >330 | 2 | 1 | 2 |
| Tin | ppm | ASTM D5185m | >15 | <1 | <1 | 1 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Cadmium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 0 | 0 | 4 | 2 |
| Barium | ppm | ASTM D5185m | 0 | 4 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 60 | 55 | 70 | 61 |
| Manganese | ppm | ASTM D5185m | 0 | 0 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 1010 | 811 | 1052 | 1000 |
| Calcium | ppm | ASTM D5185m | 1070 | 979 | 1148 | 1130 |
| Phosphorus | ppm | ASTM D5185m | 1150 | 685 | 1054 | 1064 |
| Zinc | ppm | ASTM D5185m | 1270 | 1125 | 1326 | 1353 |
| Sulfur | ppm | ASTM D5185m | 2060 | 2042 | 3329 | 3504 |
| CONTAMINAN | TS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 5 | 7 | 6 |
| Sodium | ppm | ASTM D5185m | | 7 | 6 | 4 |
| Potassium | ppm | ASTM D5185m | >20 | 6 | 2 | 3 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >4 | 0.9 | 0.6 | 0.7 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 9.6 | 8.3 | 9.5 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 22.7 | 20.3 | 21.9 |
| FLUID DEGRA | DATION | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 19.3 | 16.4 | 17.8 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.8 | 5.6 | 7.0 | 6.2 |
| | | | | | | |



OIL ANALYSIS REPORT

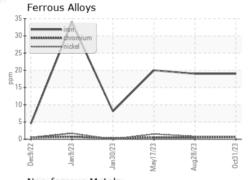


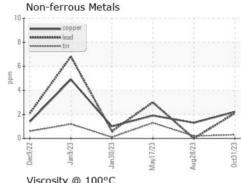


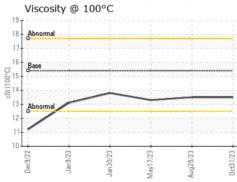
| VISUAL | | method | limit/base | current | history1 | history2 |
|-------------------------|--------|---------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate |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

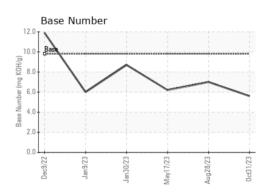
| FLUID PROPI | EKITES | metnoa | ilmit/base | current | nistory i | nistory2 |
|--------------|--------|-----------|------------|---------|-----------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 13.5 | 13.5 | 13.3 |

GRAPHS













Laboratory Sample No. Lab Number Unique Number : 10726004 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0092790 : 05997644

Received Diagnosed

: 03 Nov 2023 : 06 Nov 2023 Diagnostician : Wes Davis

GFL Environmental - 455 - Flint

2051 W. Bristol Rd Flint Township, MI US 48507

Contact: MARK WOMBLE mwomble@gflenv.com T: (586)825-9514

Certificate L2367 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)

Report Id: GFL455 [WUSCAR] 05997644 (Generated: 11/06/2023 08:56:09) Rev: 1