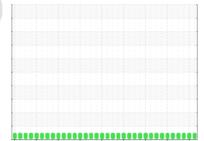


OIL ANALYSIS REPORT

Sample Rating Trend









Area
(546HPY)
1034A
Component
Diesel Engine

PETRO CANADA DURON SHP 15W40 (11 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

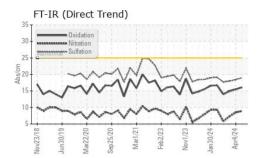
Fluid Condition

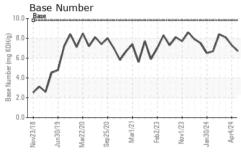
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

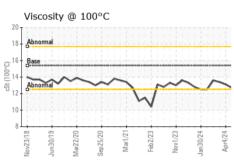
| SAMPLE INFORM | 1ATION | method | limit/base | current | history1 | history2 | |
|---|------------|---------------|--------------|----------------------|----------------------|----------------------|--|
| | MATION | | IIIIIIIIIIII | | GFL0114166 | | |
| Sample Number | | Client Info | | GFL0118808 | | GFL0114151 | |
| Sample Date Machine Age | hrs | Client Info | | 17 Apr 2024 17556 | 04 Apr 2024 17474 | 14 Mar 2024 17328 | |
| | hrs | Client Info | | 0 | 122819 | 0 | |
| Oil Changed | 1115 | Client Info | | Changed | Not Changd | Not Changd | |
| Oil Changed | | Ciletit iiiio | | NORMAL | NORMAL | NORMAL | |
| Sample Status | ON | | 11 11 11 | | | | |
| CONTAMINATI | ON | method | limit/base | current | history1 | history2 | |
| Fuel | | WC Method | | <1.0 | <1.0 | <1.0 | |
| Water | | WC Method | >0.2 | NEG | NEG | NEG | |
| Glycol | | WC Method | | NEG | NEG | NEG | |
| WEAR METALS | S | method | limit/base | current | history1 | history2 | |
| Iron | ppm | ASTM D5185m | >120 | 6 | 6 | 5 | |
| Chromium | ppm | ASTM D5185m | >20 | <1 | 0 | 0 | |
| Nickel | ppm | ASTM D5185m | >5 | <1 | 0 | 0 | |
| Titanium | ppm | ASTM D5185m | >2 | <1 | 0 | 0 | |
| Silver | ppm | ASTM D5185m | >2 | <1 | 0 | 0 | |
| Aluminum | ppm | ASTM D5185m | >20 | 3 | 2 | 1 | |
| Lead | ppm | ASTM D5185m | >40 | <1 | <1 | 0 | |
| Copper | ppm | ASTM D5185m | >330 | 1 | <1 | <1 | |
| Tin | ppm | ASTM D5185m | >15 | <1 | <1 | 0 | |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | 0 | |
| Cadmium | ppm | ASTM D5185m | | <1 | 0 | 0 | |
| ADDITIVES | | method | limit/base | current | history1 | history2 | |
| Boron | ppm | ASTM D5185m | 0 | 0 | 0 | <1 | |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 | |
| Molybdenum | ppm | ASTM D5185m | 60 | 57 | 55 | 56 | |
| Manganese | ppm | ASTM D5185m | 0 | <1 | 0 | 0 | |
| Magnesium | ppm | ASTM D5185m | 1010 | 861 | 892 | 970 | |
| Calcium | ppm | ASTM D5185m | 1070 | 1007 | 1031 | 1120 | |
| Phosphorus | ppm | ASTM D5185m | 1150 | 1039 | 1005 | 1042 | |
| Zinc | ppm | ASTM D5185m | 1270 | 1158 | 1168 | 1234 | |
| Sulfur | ppm | ASTM D5185m | 2060 | 3113 | 3383 | 3643 | |
| CONTAMINAN [*] | TS | method | limit/base | current | history1 | history2 | |
| Silicon | ppm | ASTM D5185m | >25 | 3 | 5 | 5 | |
| Sodium | ppm | ASTM D5185m | | 1 | 5 | 3 | |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 16 | 2 | |
| INFRA-RED | | method | limit/base | current | history1 | history2 | |
| Soot % | % | *ASTM D7844 | >4 | 0.3 | 0.3 | 0.2 | |
| Nitration | Abs/cm | *ASTM D7624 | | 8.9 | 8.5 | 7.3 | |
| Sulfation | Abs/.1mm | *ASTM D7415 | | 19.0 | 18.4 | 18.0 | |
| FLUID DEGRADATION method limit/base current history1 history2 | | | | | | | |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 16.1 | 15.5 | 14.9 | |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.8 | 6.7 | 7.3 | 8.1 | |
| Dasc Namber (DIN) | ing Northy | AOTIVI DE030 | 0.0 | 0.7 | 1.0 | 0.1 | |



OIL ANALYSIS REPORT



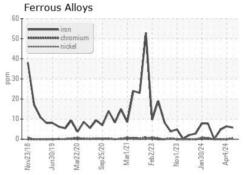


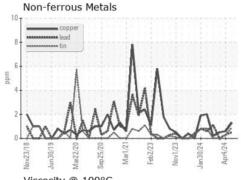


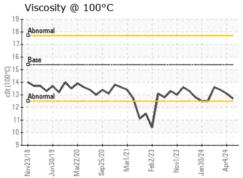
| VISUAL | | method | limit/base | current | history1 | history2 |
|-------------------------|--------|---------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate |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

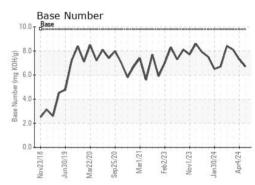
| FLUID PROPERTIES | | method | | | | history2 | |
|------------------|-----|-----------|------|------|------|----------|--|
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 12.7 | 13.1 | 13.4 | |

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0118808 Lab Number : 06156727 Unique Number : 10992150

Test Package : FLEET

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

: 22 Apr 2024 : 23 Apr 2024 Diagnosed : 23 Apr 2024 - Wes Davis

GFL Environmental - 837 - Harrison TS

22820 S State Route 291 Harrisonville, MO

US 64701 Contact: SARA PATRICK

spatrick@gflenv.com

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T: F: