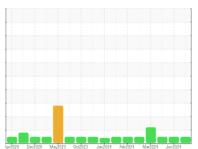


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **920093-260372**

Component

Diesel Engine

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

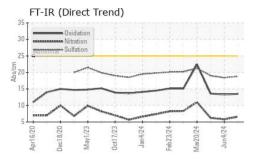
Fluid Condition

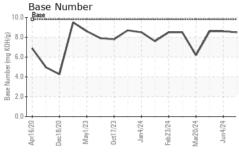
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

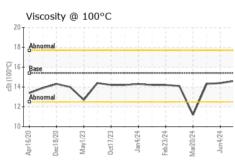
| GAL) | | Apr2020 Deca | 020 May2023 Oct2023 | Jan 2024 Feb 2024 Mar 2024 | Jun2024 | |
|------------------|----------|--------------|---------------------|----------------------------|-------------|-------------|
| SAMPLE INFORI | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | GFL0122913 | GFL0122939 | GFL0118774 |
| Sample Date | | Client Info | | 25 Jun 2024 | 04 Jun 2024 | 01 May 2024 |
| Machine Age | hrs | Client Info | | 9894 | 9718 | 9526 |
| Oil Age | hrs | Client Info | | 9894 | 192 | 9405 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | 0.5 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| WEAR METAL | S | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >100 | 9 | 6 | 5 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >4 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Silver | ppm | ASTM D5185m | >3 | <1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 4 | 3 | 2 |
| Lead | ppm | ASTM D5185m | >40 | 0 | <1 | 0 |
| Copper | ppm | ASTM D5185m | >330 | 1 | <1 | 0 |
| Tin | ppm | ASTM D5185m | >15 | <1 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 0 | 3 | 7 | <1 |
| Barium | ppm | ASTM D5185m | 0 | <1 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 60 | 60 | 60 | 59 |
| Manganese | ppm | ASTM D5185m | 0 | <1 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | 1010 | 911 | 917 | 948 |
| Calcium | ppm | ASTM D5185m | 1070 | 1099 | 1118 | 1058 |
| Phosphorus | ppm | ASTM D5185m | 1150 | 956 | 1107 | 1034 |
| Zinc | ppm | ASTM D5185m | 1270 | 1194 | 1237 | 1255 |
| Sulfur | ppm | ASTM D5185m | 2060 | 2790 | 3339 | 3494 |
| CONTAMINAN | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 3 | 3 | 2 |
| Sodium | ppm | ASTM D5185m | 00 | 5 | 1 | 4 |
| Potassium | ppm | ASTM D5185m | >20 | 5 | 4 | 2 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >3 | 0.7 | 0.5 | 0.6 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 6.6 | 5.8 | 6.2 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 18.8 | 18.4 | 19.0 |
| FLUID DEGRA | DATION | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 13.5 | 13.3 | 13.6 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.8 | 8.5 | 8.6 | 8.6 |

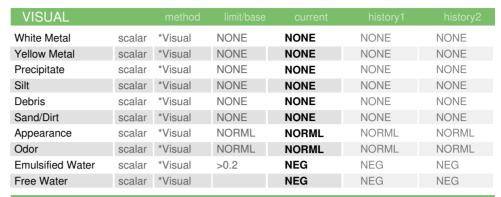


OIL ANALYSIS REPORT



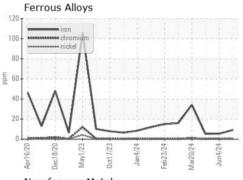


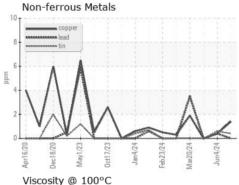


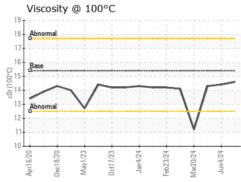


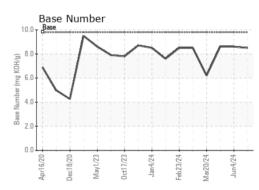
| FLUID PROPERTIES | | method | | | | history2 |
|------------------|-----|-----------|------|------|------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 14.6 | 14.4 | 14.3 |

GRAPHS













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0122913 Lab Number : 06225643 Unique Number : 11103840

Tested Diagnosed Test Package : FLEET

Received : 01 Jul 2024 : 02 Jul 2024

: 02 Jul 2024 - Wes Davis

GFL Environmental - 837 - Harrison TS

22820 S State Route 291 Harrisonville, MO

US 64701

Contact: SARA PATRICK spatrick@gflenv.com T:

* - 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)

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

Report Id: GFL837 [WUSCAR] 06225643 (Generated: 07/02/2024 17:30:40) Rev: 1

Submitted By: JEREMY BROWN

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