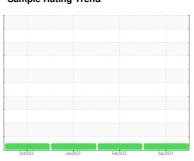


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id
726023
Component
Diesel Engine
Fluid

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Moor

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

Fluid Condition

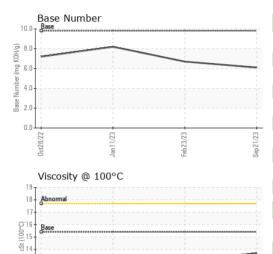
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| 14 3111 13W 40 (| G/12) | 0-2022 Jan2023 Feb.2023 Sep2023 | | | | | |
|--------------------------|----------|---------------------------------|------------|-------------|-------------|-------------|--|
| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 | |
| Sample Number | | Client Info | | GFL0066076 | GFL0066085 | GFL0066059 | |
| Sample Date | | Client Info | | 21 Sep 2023 | 23 Feb 2023 | 11 Jan 2023 | |
| Machine Age | hrs | Client Info | | 0 | 17179 | 16854 | |
| Oil Age | hrs | Client Info | | 0 | 500 | 1200 | |
| Oil Changed | | Client Info | | N/A | Changed | 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 | 17 | 14 | 6 | |
| Chromium | ppm | ASTM D5185m | >20 | <1 | 0 | 0 | |
| Nickel | ppm | ASTM D5185m | >5 | <1 | 2 | <1 | |
| Titanium | ppm | ASTM D5185m | >2 | <1 | 0 | 0 | |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 | |
| Aluminum | ppm | ASTM D5185m | >20 | 5 | 4 | <1 | |
| Lead | ppm | ASTM D5185m | >40 | 2 | <1 | <1 | |
| Copper | ppm | ASTM D5185m | >330 | 2 | 2 | <1 | |
| Tin | ppm | ASTM D5185m | >15 | 1 | <1 | <1 | |
| Vanadium | ppm | ASTM D5185m | 7.0 | 0 | 0 | 0 | |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 | |
| ADDITIVES | | method | limit/base | current | history1 | history2 | |
| Boron | ppm | ASTM D5185m | 0 | 3 | 6 | 5 | |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 | |
| Molybdenum | ppm | ASTM D5185m | 60 | 61 | 64 | 65 | |
| Manganese | ppm | ASTM D5185m | 0 | <1 | <1 | 0 | |
| Magnesium | ppm | ASTM D5185m | 1010 | 892 | 982 | 803 | |
| Calcium | ppm | ASTM D5185m | 1070 | 1064 | 1268 | 1101 | |
| Phosphorus | ppm | ASTM D5185m | 1150 | 975 | 1041 | 930 | |
| Zinc | ppm | ASTM D5185m | 1270 | 1219 | 1343 | 1137 | |
| Sulfur | ppm | ASTM D5185m | 2060 | 3102 | 3205 | 2907 | |
| CONTAMINAN | TS | method | limit/base | current | history1 | history2 | |
| Silicon | ppm | ASTM D5185m | >25 | 6 | 4 | 3 | |
| Sodium | ppm | ASTM D5185m | | 6 | 2 | 2 | |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 2 | 2 | |
| INFRA-RED | | method | limit/base | current | history1 | history2 | |
| Soot % | % | *ASTM D7844 | >4 | 0.8 | 0.5 | 0.3 | |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 10.0 | 10.2 | 8.3 | |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 23.1 | 21.3 | 19.4 | |
| FLUID DEGRAI | DATION | method | limit/base | current | history1 | history2 | |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 19.0 | 17.8 | 15.8 | |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.8 | 6.1 | 6.7 | 8.2 | |
| _ ass (tall lost (bit) | mg nong | | 5.0 | J. | 0.7 | 0.2 | |



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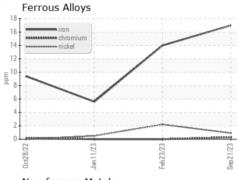
OIL ANALYSIS REPORT

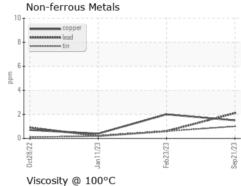


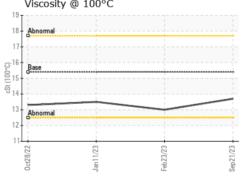
| VISUAL | | method | limit/base | current | history1 | history2 |
|-------------------------|--------|---------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate |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

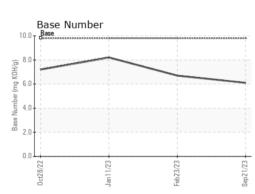
| FLUID PROPE | ERITES | method | | | history1 | history2 |
|--------------|--------|-----------|------|------|----------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 13.7 | 13.0 | 13.5 |

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Test Package : FLEET

: GFL0066076 : 05964410 Unique Number : 10670961

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 Sep 2023 Diagnosed : 29 Sep 2023

Diagnostician : Wes Davis

GFL Environmental - 904 - Chippewa Falls HC

11888 & 11863 30th Avenue Chippewa Falls, WI US 54729

Contact: Andy Kane

T: (715)202-3420

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)

Submitted By: BRAYDON SMITH

F: