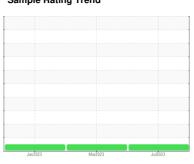


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **820044**

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

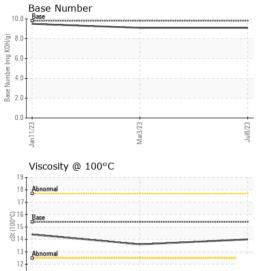
Fluid Condition

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

| GAL) Jantoz3 Mindoz3 Julidoz3 | | | | | | |
|--------------------------------|----------|-------------|------------|-------------|-------------|-------------|
| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | GFL0066136 | GFL0060328 | GFL0066065 |
| Sample Date | | Client Info | | 08 Jul 2023 | 03 Mar 2023 | 11 Jan 2023 |
| Machine Age | hrs | Client Info | | 18368 | 17452 | 17447 |
| Oil Age | hrs | Client Info | | 600 | 500 | 1200 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >5 | <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 | >100 | 9 | 11 | 13 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >4 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >3 | <1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 3 | 2 | <1 |
| Lead | ppm | ASTM D5185m | >40 | <1 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >330 | 3 | <1 | <1 |
| Tin | ppm | ASTM D5185m | >15 | <1 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 0 | 25 | 9 | 17 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 2 | 0 |
| Molybdenum | ppm | ASTM D5185m | 60 | 63 | 60 | 57 |
| Manganese | ppm | ASTM D5185m | 0 | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 1010 | 888 | 890 | 780 |
| Calcium | ppm | ASTM D5185m | 1070 | 1124 | 1130 | 1093 |
| Phosphorus | ppm | ASTM D5185m | 1150 | 1013 | 1017 | 1007 |
| Zinc | ppm | ASTM D5185m | 1270 | 1152 | 1199 | 1138 |
| Sulfur | ppm | ASTM D5185m | 2060 | 3119 | 3229 | 3107 |
| CONTAMINAN | TS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 16 | 9 | 7 |
| Sodium | ppm | ASTM D5185m | | 0 | 1 | 2 |
| Potassium | ppm | ASTM D5185m | >20 | 14 | 6 | 10 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >3 | 0.2 | 0.3 | 0.6 |
| Nitration | Abs/cm | *ASTM D7624 | | 5.6 | 5.7 | 6.8 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 17.8 | 18.2 | 19.4 |
| FLUID DEGRAI | NOITAC | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 13.5 | 13.2 | 13.7 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 9.1 | 9.1 | 9.5 |
| (=1.4) | 99 | | | | | |



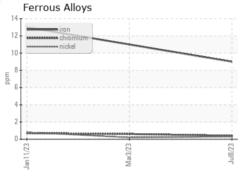
OIL ANALYSIS REPORT

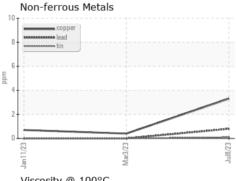


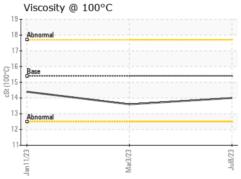
| VISUAL | | method | limit/base | current | history1 | history2 |
|-------------------------|--------|---------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate |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

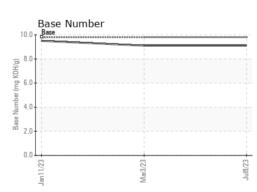
| FLUID PROP | EKIIES | method | ilmivbase | | nistory i | nistory2 |
|--------------|--------|-----------|-----------|------|-----------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 14.0 | 13.6 | 14.4 |

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0066136 : 05924694 Unique Number : 10604641

Received Diagnosed

: 15 Aug 2023 : 15 Aug 2023 Diagnostician : Wes Davis

GFL Environmental - 904C - Eau Claire

3010 MONDOVI RD EAU CLAIRE, WI US 54701

Contact: ANDY KANE

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)

T: (715)202-3420 F: