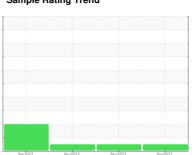


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **4665M** Component **Diesel Engine**

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

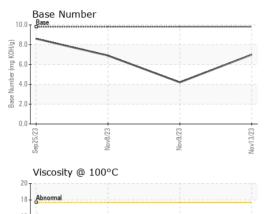
Fluid Condition

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

| 11 0111 1011 10 (| Smil 13444 (GAL) Smiloza Novideza Novideza Novideza | | | | | |
|-------------------|--|-------------|------------|-------------|-------------|-------------|
| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | GFL0084956 | GFL0059169 | GFL0059161 |
| Sample Date | | Client Info | | 13 Nov 2023 | 09 Nov 2023 | 08 Nov 2023 |
| Machine Age | mls | Client Info | | 123615 | 123461 | 123560 |
| Oil Age | mls | Client Info | | 0 | 123461 | 123560 |
| 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 | >80 | 29 | 61 | 31 |
| Chromium | ppm | ASTM D5185m | >5 | 1 | 2 | <1 |
| Nickel | ppm | ASTM D5185m | >2 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >3 | 0 | <1 | <1 |
| Aluminum | ppm | ASTM D5185m | >30 | 4 | 2 | 2 |
| Lead | ppm | ASTM D5185m | >30 | 0 | <1 | <1 |
| Copper | ppm | ASTM D5185m | | <1 | 3 | 2 |
| Tin | ppm | ASTM D5185m | >5 | <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 | 3 | 5 | 0 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 6 | 6 |
| Molybdenum | ppm | ASTM D5185m | 60 | 58 | 60 | 62 |
| Manganese | ppm | ASTM D5185m | 0 | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 1010 | 947 | 848 | 891 |
| Calcium | ppm | ASTM D5185m | 1070 | 1036 | 1050 | 1074 |
| Phosphorus | ppm | ASTM D5185m | 1150 | 1015 | 949 | 1009 |
| Zinc | ppm | ASTM D5185m | 1270 | 1288 | 1130 | 1188 |
| Sulfur | ppm | ASTM D5185m | 2060 | 2784 | 3012 | 3167 |
| CONTAMINAN | ITS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >20 | 6 | 7 | 4 |
| Sodium | ppm | ASTM D5185m | | 2 | 5 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | 6 | 3 | 9 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >3 | 0.6 | 1.2 | 0.6 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 10.2 | 15.1 | 10.0 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 21.6 | 29.3 | 21.4 |
| FLUID DEGRA | OATION | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 19.7 | 33.0 | 19.2 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.8 | 7.0 | 4.2 | 6.9 |
| ('-) | 0 - 3 | | | | | |



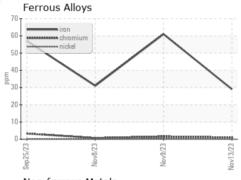
OIL ANALYSIS REPORT



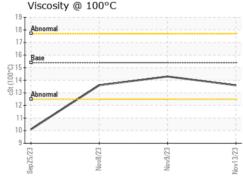
| VISUAL | | method | limit/base | current | history1 | history2 |
|-------------------------|--------|---------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate |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

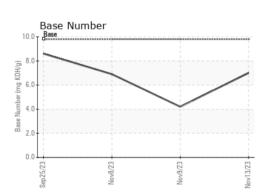
| FLUID PROPE | ERITES | method | | | history1 | history2 |
|--------------|--------|-----------|------|------|----------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 13.6 | 14.3 | 13.6 |

GRAPHS



| Non-ferrou | s Metals | | |
|--------------------------------|----------|---------|----------|
| 35 T 1 | | | |
| coppe | ri | | |
| 30 - Lead lead | | | |
| seesseessee tin | | | |
| 25 | ~ | | |
| 20 | | | |
| E 20 | | | |
| E 20 | | | |
| 13 | | | |
| 10 | | | |
| | \ | | |
| 5 - Management | | | |
| delication of the England Land | | | |
| | | | |
| 723 | 733 | 23 | 23 |
| 25 | Nov8/23 | Nov9/23 | 13 |
| Sep25/23 | ž | ž | Nov13/23 |
| Viscosity @ | 10000 | | _ |









Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10749705

: GFL0084956 : 06010561 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Nov 2023 Diagnosed

: 17 Nov 2023 Diagnostician : Wes Davis

GFL Environmental - 410 - Michigan West

39000 Van Born Rd Wayne, MI US 48184 Contact: Belal Dgheish

bdgheish@gflenv.com T: (734)714-2340

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)