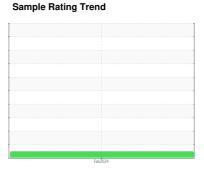


OIL ANALYSIS REPORT



Machine Id 922050 Component **Diesel Engine**

PETRO CANADA DURO





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Services complete, unsure of last pm service)

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

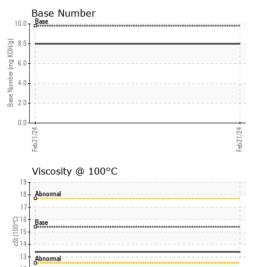
Fluid Condition

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

| N SHP 15W40 (- | GAL) | | | Feb2024 | | |
|------------------|----------|-------------|------------|-------------|----------|----------|
| SAMPLE INFOR | RMATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | GFL0094892 | | |
| Sample Date | | Client Info | | 21 Feb 2024 | | |
| Machine Age | hrs | Client Info | | 5293 | | |
| Oil Age | hrs | Client Info | | 0 | | |
| Oil Changed | | Client Info | | Changed | | |
| Sample Status | | | | NORMAL | | |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >3.0 | <1.0 | | |
| Water | | WC Method | >0.2 | NEG | | |
| Glycol | | WC Method | | NEG | | |
| WEAR METAL | _S | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >120 | 2 | | |
| Chromium | ppm | ASTM D5185m | >20 | <1 | | |
| Nickel | ppm | ASTM D5185m | >5 | 0 | | |
| Titanium | ppm | ASTM D5185m | >2 | 0 | | |
| Silver | ppm | ASTM D5185m | >2 | 0 | | |
| Aluminum | ppm | ASTM D5185m | >20 | 2 | | |
| Lead | ppm | ASTM D5185m | >40 | 0 | | |
| Copper | ppm | ASTM D5185m | >330 | 0 | | |
| Tin | ppm | ASTM D5185m | >15 | 0 | | |
| Vanadium | ppm | ASTM D5185m | | 0 | | |
| Cadmium | ppm | ASTM D5185m | | 0 | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 0 | 41 | | |
| Barium | ppm | ASTM D5185m | 0 | 0 | | |
| Molybdenum | ppm | ASTM D5185m | 60 | 67 | | |
| Manganese | ppm | ASTM D5185m | 0 | <1 | | |
| Magnesium | ppm | ASTM D5185m | 1010 | 587 | | |
| Calcium | ppm | ASTM D5185m | 1070 | 1308 | | |
| Phosphorus | ppm | ASTM D5185m | 1150 | 715 | | |
| Zinc | ppm | ASTM D5185m | 1270 | 866 | | |
| Sulfur | ppm | ASTM D5185m | 2060 | 2491 | | |
| CONTAMINAN | NTS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 4 | | |
| Sodium | ppm | ASTM D5185m | | 0 | | |
| Potassium | ppm | ASTM D5185m | >20 | 0 | | |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >4 | 0.5 | | |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 9.2 | | |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 20.6 | | |
| FLUID DEGRA | DATION | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 18.6 | | |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.8 | 8.0 | | |
| | | | | | | |



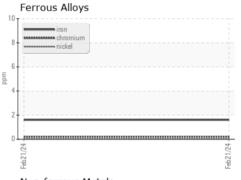
OIL ANALYSIS REPORT



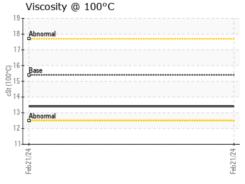
| VISUAL | | method | limit/base | current | history1 | history2 |
|-------------------------|--------|---------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | | |
| Yellow Metal | scalar | *Visual | NONE | NONE | | |
| Precipitate | scalar | *Visual | NONE | NONE | | |
| Silt | scalar | *Visual | NONE | NONE | | |
| Debris | scalar | *Visual | NONE | NONE | | |
| Sand/Dirt | scalar | *Visual | NONE | NONE | | |
| Appearance | scalar | *Visual | NORML | NORML | | |
| Odor | scalar | *Visual | NORML | NORML | | |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | | |
| Free Water | scalar | *Visual | | NEG | | |
| FLUID PROPE | RTIES | method | limit/base | current | history1 | history2 |

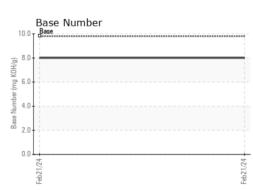
| FLUID FROFI | LULIES | memou | | | HISTOLAL | HISTOLYZ |
|--------------|--------|-----------|------|------|----------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 13.4 | | |

GRAPHS



| 10 | Non-ferrous Metals | |
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Certificate L2367

Laboratory Sample No. Lab Number : 06100833

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

Test Package : FLEET

: GFL0094892 Unique Number : 10899063

Received **Tested**

: 26 Feb 2024 : 27 Feb 2024 Diagnosed : 28 Feb 2024 - Don Baldridge

GFL Environmental - 625 - Harrison Hauling

4102 Industrial Pkwy Harrison, MI US 48625

Contact: Glenda Standen gstanden@gflenv.com

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:

F: