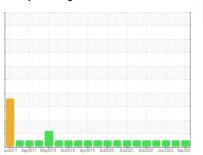


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 11282 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (20 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.

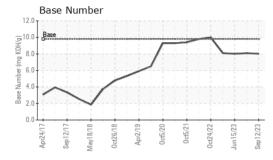
Fluid Condition

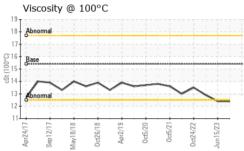
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| ## ## ### ### ### #################### | | | | | | |
|---|----------|-------------|------------|-------------|-------------|-------------|
| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | GFL0094327 | GFL0091443 | GFL0083229 |
| Sample Date | | Client Info | | 12 Sep 2023 | 01 Sep 2023 | 15 Jun 2023 |
| Machine Age | hrs | Client Info | | 10953 | 10870 | 10812 |
| Oil Age | hrs | Client Info | | 278 | 195 | 161 |
| Oil Changed | | Client Info | | Changed | Not Changd | Not Changd |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | 0.6 |
| Glycol | | WC Method | | NEG | NEG | NEG |
| WEAR METALS method limit/base current history1 history2 | | | | | | |
| Iron | ppm | ASTM D5185m | >100 | 17 | 15 | 10 |
| Chromium | ppm | ASTM D5185m | >20 | 0 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | >4 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 1 | 1 | 1 |
| Lead | ppm | ASTM D5185m | >40 | <1 | <1 | 0 |
| Copper | ppm | ASTM D5185m | >330 | 2 | 2 | <1 |
| Tin | ppm | ASTM D5185m | >15 | <1 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 0 | 20 | 21 | 28 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 60 | 60 | 58 | 60 |
| Manganese | ppm | ASTM D5185m | 0 | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 1010 | 844 | 780 | 813 |
| Calcium | ppm | ASTM D5185m | 1070 | 1214 | 1138 | 1132 |
| Phosphorus | ppm | ASTM D5185m | 1150 | 974 | 922 | 985 |
| Zinc | ppm | ASTM D5185m | 1270 | 1213 | 1132 | 1191 |
| Sulfur | ppm | ASTM D5185m | 2060 | 3696 | 3395 | 3654 |
| CONTAMINAN | ITS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 4 | 3 | 2 |
| Sodium | ppm | ASTM D5185m | | 2 | 2 | <1 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | <1 | 0 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >3 | 0.4 | 0.3 | 0.2 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 6.7 | 6.9 | 5.7 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 17.0 | 16.2 | 17.2 |
| FLUID DEGRADATION method limit/base current history1 history2 | | | | | | |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 12.4 | 11.4 | 13.5 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.8 | 8.0 | 8.1 | 8.0 |
| . , | | | | | | |



OIL ANALYSIS REPORT

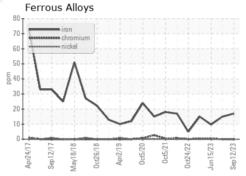


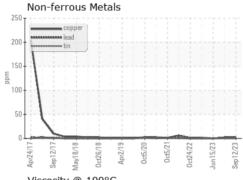


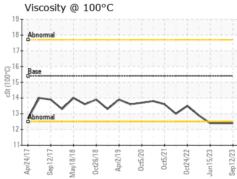
| VISUAL | | method | limit/base | current | history1 | history2 |
|-------------------------|--------|---------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate |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

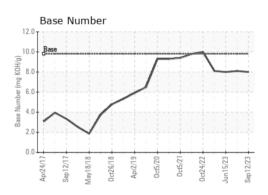
| FLUID PROPERTIES | | method | | | | history2 | |
|------------------|-----|-----------|------|------|------|----------|--|
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 12.4 | 12.4 | 12.4 | |

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10654953 Test Package : FLEET

: GFL0094327 : 05953740

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Sep 2023 Diagnosed : 20 Sep 2023 Diagnostician : Wes Davis

GFL Environmental - 010 - Stockbridge

1280 Rum Creek Parkway Stockbridge, GA US 30281

Contact: JOSHUA TINKER joshuatinker@gflenv.com

* - 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:

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