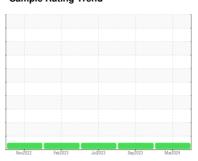


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **222072-200**

Diesel Engine

PETRO CANADA DURON SHP 15W40 (6 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.

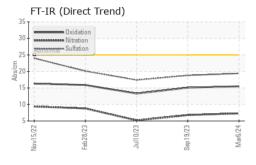
Fluid Condition

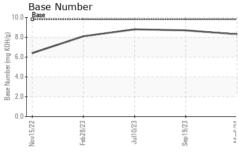
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

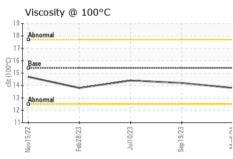
| AL) | | Nov2022 | Feb2023 | Jul2023 Sep2023 | Mar2024 | | |
|---|----------|-------------|------------|-----------------|-------------|-------------|--|
| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 | |
| Sample Number | | Client Info | | GFL0108566 | GFL0066075 | GFL0066058 | |
| Sample Date | | Client Info | | 06 Mar 2024 | 19 Sep 2023 | 10 Jul 2023 | |
| Machine Age | hrs | Client Info | | 17674 | 0 | 0 | |
| Oil Age | hrs | Client Info | | 600 | 0 | 0 | |
| Oil Changed | | Client Info | | Changed | N/A | N/A | |
| Sample Status | | | | NORMAL | NORMAL | NORMAL | |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 | |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | <1.0 | |
| Water | | WC Method | >0.2 | NEG | NEG | NEG | |
| Glycol | | WC Method | | NEG | NEG | NEG | |
| WEAR METAL | .S | method | limit/base | current | history1 | history2 | |
| Iron | ppm | ASTM D5185m | >80 | 6 | 28 | 19 | |
| Chromium | ppm | ASTM D5185m | >5 | <1 | 2 | 2 | |
| Nickel | ppm | ASTM D5185m | >2 | <1 | <1 | <1 | |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | <1 | |
| Silver | ppm | ASTM D5185m | >3 | <1 | 0 | 0 | |
| Aluminum | ppm | ASTM D5185m | >30 | 3 | 4 | <1 | |
| Lead | ppm | ASTM D5185m | >30 | <1 | 0 | <1 | |
| Copper | ppm | ASTM D5185m | >150 | 1 | 2 | <1 | |
| Tin | ppm | ASTM D5185m | >5 | <1 | <1 | <1 | |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | <1 | |
| Cadmium | ppm | ASTM D5185m | | <1 | 0 | <1 | |
| ADDITIVES | | method | limit/base | current | history1 | history2 | |
| Boron | ppm | ASTM D5185m | 0 | 2 | 19 | 10 | |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 | |
| Molybdenum | ppm | ASTM D5185m | 60 | 58 | 75 | 60 | |
| Manganese | ppm | ASTM D5185m | 0 | 0 | <1 | <1 | |
| Magnesium | ppm | ASTM D5185m | 1010 | 930 | 1056 | 994 | |
| Calcium | ppm | ASTM D5185m | 1070 | 1073 | 1245 | 1150 | |
| Phosphorus | ppm | ASTM D5185m | 1150 | 1020 | 1150 | 1033 | |
| Zinc | ppm | ASTM D5185m | 1270 | 1217 | 1418 | 1255 | |
| Sulfur | ppm | ASTM D5185m | 2060 | 3114 | 4061 | 3794 | |
| CONTAMINAN | ITS | method | limit/base | current | history1 | history2 | |
| Silicon | ppm | ASTM D5185m | >20 | 4 | 8 | 4 | |
| Sodium | ppm | ASTM D5185m | | 3 | 7 | 2 | |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 2 | 3 | |
| INFRA-RED | | method | limit/base | current | history1 | history2 | |
| Soot % | % | *ASTM D7844 | >3 | 0.2 | 0.1 | 0.1 | |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 7.3 | 6.8 | 5.2 | |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 19.4 | 18.8 | 17.4 | |
| FLUID DEGRADATION method limit/base current history1 history2 | | | | | | | |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 15.5 | 15.1 | 13.3 | |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.8 | 8.3 | 8.7 | 8.8 | |
| . , | , , | | | | | | |



OIL ANALYSIS REPORT



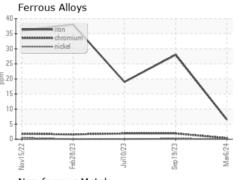


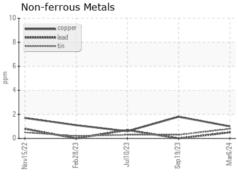


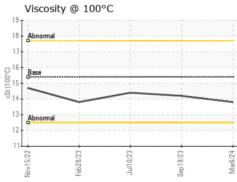
| VISUAL | | method | limit/base | current | history1 | history2 |
|-------------------------|--------|---------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate |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

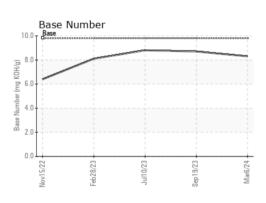
| FLUID PROPI | ERHES | method | | | history1 | history2 |
|--------------|-------|-----------|------|------|----------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 13.8 | 14.2 | 14.4 |

GRAPHS













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06153974

: GFL0108566 Unique Number : 10989397

Received : 19 Apr 2024 **Tested** : 22 Apr 2024 Diagnosed

: 22 Apr 2024 - Wes Davis

GFL Environmental - 904 - Chippewa Falls HC 11888 & 11863 30th Avenue

Chippewa Falls, WI US 54729

Contact: Andy Kane

Test Package : FLEET 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