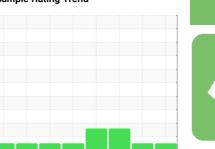


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **727025-594**Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Actual hours 14506 590 hours on oil sample All services completed)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

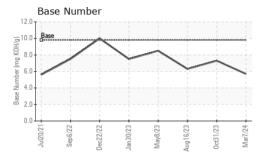
Fluid Condition

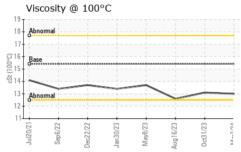
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| N 30P 13W4U (- | GAL) | Jul2021 8 | Sep2022 Dec2022 Jan20 | 23 May2023 Aug2023 Oct2023 | Mar2024 | |
|------------------|----------|-------------|-----------------------|----------------------------|-------------|-------------|
| SAMPLE INFOF | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | GFL0101610 | GFL0088307 | GFL007754 |
| Sample Date | | Client Info | | 07 Mar 2024 | 31 Oct 2023 | 16 Aug 2023 |
| Machine Age | hrs | Client Info | | 14506 | 13920 | 14888 |
| Oil Age | hrs | Client Info | | 590 | 448 | 593 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | ABNORMAL |
| CONTAMINAT | ΓΙΟΝ | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >3.0 | <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 | >120 | 7 | 6 | 14 |
| Chromium | ppm | ASTM D5185m | >20 | 0 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | >5 | 2 | 1 | 2 |
| Titanium | ppm | ASTM D5185m | >2 | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >20 | 3 | 2 | 2 |
| Lead | ppm | ASTM D5185m | >40 | 0 | 2 | 4 |
| Copper | ppm | ASTM D5185m | >330 | 2 | <1 | 2 |
| Tin | ppm | ASTM D5185m | >15 | <1 | <1 | 1 |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 0 | 0 | 6 | <1 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 60 | 61 | 60 | 62 |
| Manganese | ppm | ASTM D5185m | 0 | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 1010 | 914 | 913 | 972 |
| Calcium | ppm | ASTM D5185m | 1070 | 1073 | 1026 | 1109 |
| Phosphorus | ppm | ASTM D5185m | 1150 | 1028 | 950 | 947 |
| Zinc | ppm | ASTM D5185m | 1270 | 1222 | 1247 | 1210 |
| Sulfur | ppm | ASTM D5185m | 2060 | 3104 | 2880 | 3038 |
| CONTAMINAN | NTS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 7 | 11 | 4 39 |
| Sodium | ppm | ASTM D5185m | | 3 | 2 | 5 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 1 | 2 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >4 | 0.6 | 0.4 | 0.5 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 9.7 | 7.8 | 8.5 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 21.1 | 19.7 | 20.3 |
| FLUID DEGRA | NOITAD. | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 16.8 | 15.1 | 16.4 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.8 | 5.7 | 7.3 | 6.3 |
| | | | | | | |



OIL ANALYSIS REPORT

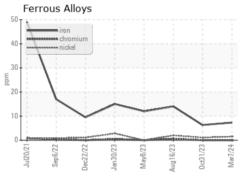


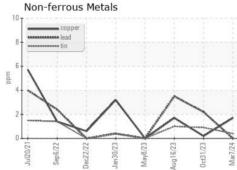


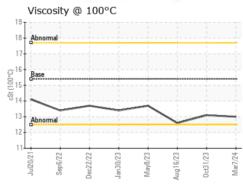
| VISUAL | | method | limit/base | current | history1 | history2 |
|-------------------------|--------|---------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate |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

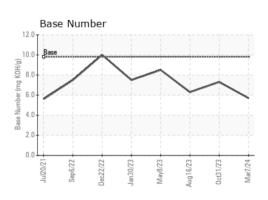
| FLUID PROPERTIES | | method | | | | history2 | |
|------------------|-----|-----------|------|------|------|----------|--|
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 13.0 | 13.1 | 12.6 | |

GRAPHS













Laboratory Sample No. Lab Number : 06116457 Unique Number : 10925290

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

: GFL0101610

Tested

Received : 12 Mar 2024 : 14 Mar 2024 Diagnosed

: 14 Mar 2024 - Don Baldridge

GFL Environmental - 625 - Harrison Hauling

4102 Industrial Pkwy Harrison, MI

US 48625 Contact: Glenda Standen

gstanden@gflenv.com T:

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)

F: