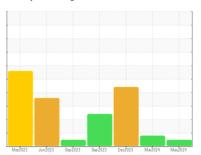


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 725078 Component

Diesel Engine

Fluid
PETRO CANADA DURON SH

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. 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.

| ON SHP 15W40 (| GAL) | Mar2023 | Jun2023 Sep2023 | Smp2023 Dmc2023 Mm/2024 | May/2024 | |
|----------------|-------|-------------|-----------------|-------------------------|-------------|-------------|
| SAMPLE INFORM | ATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | GFL0086969 | GFL0086979 | GFL0086920 |
| Sample Date | | Client Info | | 31 May 2024 | 08 Mar 2024 | 01 Dec 2023 |
| Machine Age | hrs | Client Info | | 10600 | 10200 | 9800 |
| Oil Age | hrs | Client Info | | 500 | 622 | 222 |
| 01.01 | | 011 1 1 | | Nat Observat | NI-+ Ol I | h I / A |

| Sample Date | | Client inio | | 31 Way 2024 | 06 Mar 2024 | 01 Dec 2023 |
|------------------|----------|-------------|------------|-------------|-------------|--------------|
| Machine Age | hrs | Client Info | | 10600 | 10200 | 9800 |
| Oil Age | hrs | Client Info | | 500 | 622 | 222 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | N/A |
| Sample Status | | | | NORMAL | ABNORMAL | SEVERE |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 |
| 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 | 4 | 21 | 22 |
| Chromium | ppm | ASTM D5185m | >20 | 0 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >5 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | <1 | 1 | 1 |
| Lead | ppm | ASTM D5185m | >40 | 0 | <1 | 0 |
| Copper | ppm | ASTM D5185m | >330 | <1 | 2 | 2 |
| Tin | ppm | ASTM D5185m | >15 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 0 | 5 | 8 | 2 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 60 | 57 | 61 | 48 |
| Manganese | ppm | ASTM D5185m | 0 | 0 | <1 | 0 |
| Magnesium | ppm | ASTM D5185m | 1010 | 898 | 967 | 776 |
| Calcium | ppm | ASTM D5185m | 1070 | 1073 | 1102 | 768 |
| Phosphorus | ppm | ASTM D5185m | 1150 | 1008 | 998 | 733 |
| Zinc | ppm | ASTM D5185m | 1270 | 1175 | 1234 | 921 |
| Sulfur | ppm | ASTM D5185m | 2060 | 3511 | 3506 | 2350 |
| CONTAMINAN | TS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 0 | 4 | 4 |
| Sodium | ppm | ASTM D5185m | | <1 | <1 | 2 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | <1 | 0 |
| Fuel | % | ASTM D3524 | >3.0 | 0.6 | ▲ 3.2 | ▲ 20.5 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >4 | 0.7 | 2.5 | △ 5.5 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 4.9 | 8.9 | 17.6 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 17.8 | 22.2 | 35.5 |
| FLUID DEGRA | OATION | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 12.1 | 14.6 | 27.2 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.8 | 8.5 | 8.3 | ▲ 0.0 |
| | | | | | | |



OIL ANALYSIS REPORT







Laboratory

Sample No.

: GFL0086969 Lab Number : 06198816

Unique Number : 11060939

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 04 Jun 2024

Tested : 06 Jun 2024 Diagnosed

: 06 Jun 2024 - Wes Davis

BROWN CITY, MI

US 48416 Contact: MARK WOMBLE

GFL Environmental - 408 - Brown City

Test Package : FLEET (Additional Tests: PercentFuel) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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)

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T:

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