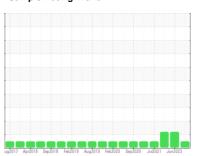


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id 901014 Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (26 LTR

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

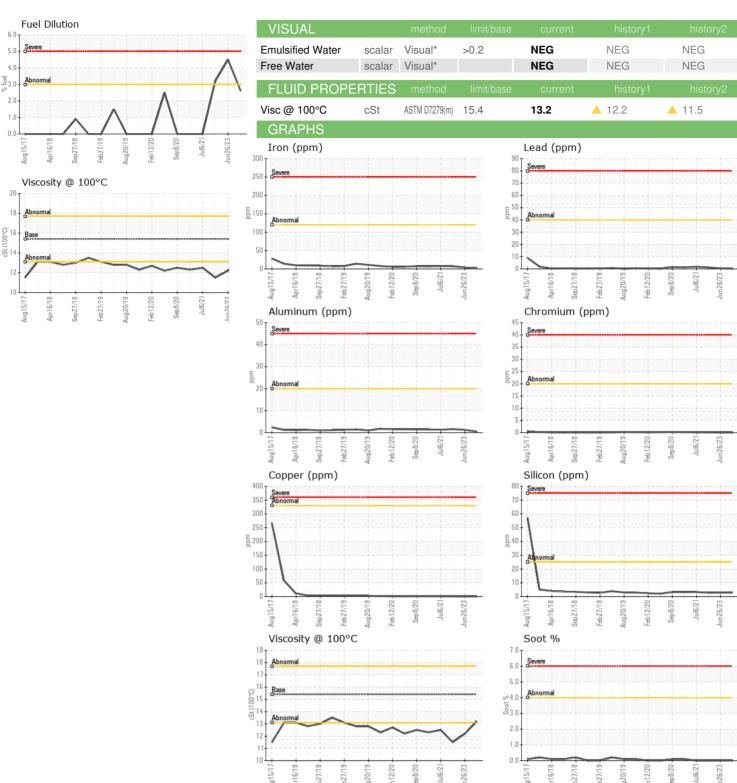
Fluid Condition

The condition of the oil is acceptable for the time in service.

| ON SHP 15W40 (26 LTR) | | | | | | |
|-----------------------|----------|---------------|------------|-------------|--------------|--------------|
| SAMPLE INFORI | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | GFL0086490 | GFL0086497 | GFL0040014 |
| Sample Date | | Client Info | | 17 Jul 2023 | 26 Jun 2023 | 25 Jan 2022 |
| Machine Age | hrs | Client Info | | 14794 | 14378 | 247017 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | N/A |
| Sample Status | | | | NORMAL | ABNORMAL | ABNORMAL |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 |
| Glycol | | WC Method | | NEG | NEG | NEG |
| WEAR METAL | S | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185(m) | >120 | 2 | 4 | 7 |
| Chromium | ppm | ASTM D5185(m) | >20 | 0 | 0 | <1 |
| Nickel | ppm | ASTM D5185(m) | >5 | 0 | 0 | <1 |
| Titanium | ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >20 | <1 | 1 | 2 |
| Lead | ppm | ASTM D5185(m) | >40 | <1 | <1 | 1 |
| Copper | ppm | ASTM D5185(m) | >330 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185(m) | >15 | 0 | 0 | <1 |
| Antimony | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Beryllium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185(m) | 0 | 7 | 6 | 13 |
| Barium | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | 60 | 57 | 58 | 59 |
| Manganese | ppm | ASTM D5185(m) | 0 | 0 | <1 | <1 |
| Magnesium | ppm | ASTM D5185(m) | 1010 | 938 | 957 | 958 |
| Calcium | ppm | ASTM D5185(m) | 1070 | 1033 | 998 | 1051 |
| Phosphorus | ppm | ASTM D5185(m) | 1150 | 1027 | 1036 | 1004 |
| Zinc | ppm | ASTM D5185(m) | 1270 | 1146 | 1176 | 1145 |
| Sulfur | ppm | ASTM D5185(m) | 2060 | 2506 | 2427 | 2431 |
| Lithium | ppm | ASTM D5185(m) | | <1 | <1 | <1 |
| CONTAMINAN | TS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185(m) | >25 | 3 | 3 | 3 |
| Sodium | ppm | ASTM D5185(m) | | 3 | 3 | 4 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | <1 | 1 |
| Fuel | % | ASTM D7593* | >3.0 | 2.6 | △ 4.5 | ▲ 3.2 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | ASTM D7844* | >4 | 0 | 0 | 0 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 6.0 | 8.4 | 9.4 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 18.7 | 19.5 | 21.5 |
| FLUID DEGRA | OATION | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 14.3 | 16.1 | 17.8 |



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: GFL0086490 : 02570806

To discuss this sample report, contact Customer Service at 1-800-268-2131.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 19 Jul 2023 Diagnosed : 20 Jul 2023 : 5607852

Diagnostician : Wes Davis

Test Package : MOB 1 (Additional Tests: PercentFuel)

GFL Environmental - 217 - Aurora 14131 BAYVIEW AVE, AURORA YARD AURORA, ON CA L4G 0K6

Contact: Mike Havens MHavens@gflenv.com T:

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

F: (905)713-2445