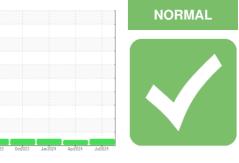


OIL ANALYSIS REPORT

Sample Rating Trend



412049 Component Diesel Engine Fluid

PETRO CANADA DURON SHP 10W30 (--- GAL)

| DIAGNOSIS |
|----------------|
| Recommendation |

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Machine Id

Wear

All component wear rates are normal.

Contamination

Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

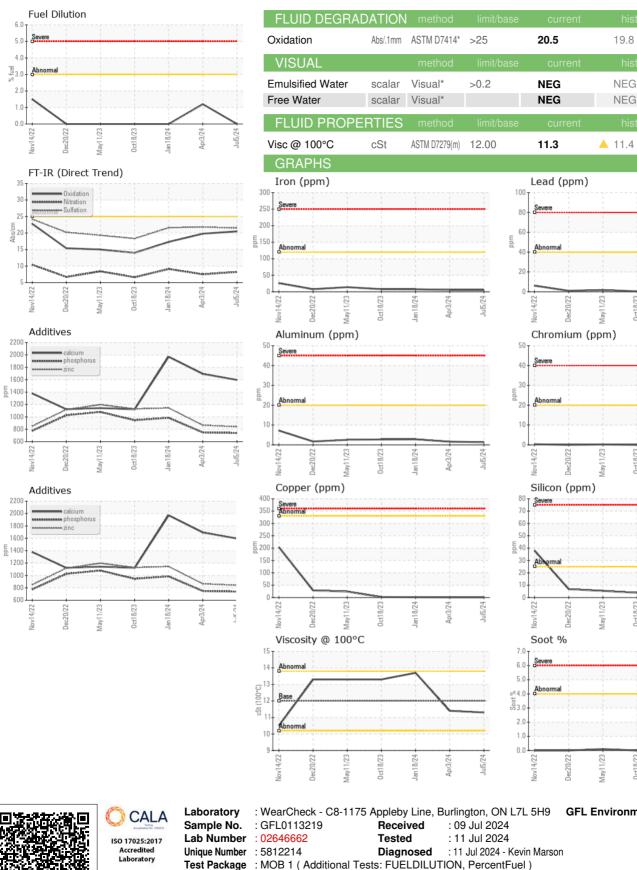
Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
|---------------|----------|---------------|------------|-------------|-------------|-------------|
| Sample Number | | Client Info | | GFL0113219 | GFL0102915 | GFL0102856 |
| Sample Date | | Client Info | | 05 Jul 2024 | 03 Apr 2024 | 18 Jan 2024 |
| Machine Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Age | hrs | Client Info | | 4698 | 4061 | 3722 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | ABNORMAL | NORMAL |
| 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 D5185(m) | >120 | 5 | 5 | 8 |
| Chromium | ppm | ASTM D5185(m) | >20 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | >5 | 2 | <1 | 1 |
| Titanium | ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | >2 | <1 | 0 | <1 |
| Aluminum | ppm | ASTM D5185(m) | >20 | 1 | 2 | 3 |
| Lead | ppm | ASTM D5185(m) | >40 | 0 | 0 | <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) | 2 | 42 | 59 | 103 |
| Barium | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | 50 | 38 | 35 | 14 |
| Manganese | ppm | ASTM D5185(m) | 0 | <1 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | 950 | 474 | 446 | 181 |
| Calcium | ppm | ASTM D5185(m) | 1050 | 1597 | 1693 | 1969 |
| Phosphorus | ppm | ASTM D5185(m) | 995 | 740 | 748 | 985 |
| Zinc | ppm | ASTM D5185(m) | 1180 | 841 | 865 | 1144 |
| Sulfur | ppm | ASTM D5185(m) | 2600 | 2070 | 2128 | 2991 |
| Lithium | ppm | ASTM D5185(m) | | <1 | <1 | <1 |
| CONTAMINAN | TS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185(m) | >25 | 4 | 2 | 3 |
| Sodium | ppm | ASTM D5185(m) | | 2 | 2 | 2 |
| Potassium | ppm | ASTM D5185(m) | >20 | 1 | 4 | 8 |
| Fuel | % | ASTM D7593* | >3.0 | 0.0 | 1.2 | <1.0 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | ASTM D7844* | >4 | 0 | 0 | 0.1 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 8.2 | 7.5 | 9.1 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 21.5 | 21.8 | 21.6 |
| | | | | | | |



OIL ANALYSIS REPORT



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

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.

GFL Environmental - 246 - Windsor 2700 Deziel Dr Windsor, ON CA N8W 5H8 Contact: Dave Varga dvarga@gflenv.com T: (519)944-8009 E: Submitted By: Dave Varga

an 18/24

Report Id: GFL246 [WCAMIS] 02646662 (Generated: 07/11/2024 10:26:44) Rev: 1

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