

OIL ANALYSIS REPORT

Sample Rating Trend

FUEL

Machine Id 351044

Component

Diesel Engine

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

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

Viscosity of sample indicates oil is within SAE 10W30 range, advise investigate. The condition of the oil is acceptable for the time in service.

| | | | | Mar2024 | | |
|---------------|----------|---------------|------------|------------------|----------|----------|
| SAMPLE INFORM | ATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | GFL0090753 | | |
| Sample Date | | Client Info | | 11 Mar 2024 | | |
| 0 | hrs | Client Info | | 138131 | | |
| 0 | hrs | Client Info | | 7500 | | |
| Oil Changed | | Client Info | | Changed | | |
| Sample Status | | | | ABNORMAL | | |
| CONTAMINATIO | ON | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >0.2 | NEG | | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185(m) | >100 | 41 | | |
| Chromium | ppm | ASTM D5185(m) | >20 | <1 | | |
| Nickel | ppm | ASTM D5185(m) | >4 | <1 | | |
| Titanium | ppm | ASTM D5185(m) | | 0 | | |
| Silver | ppm | ASTM D5185(m) | >3 | 0 | | |
| Aluminum | ppm | ASTM D5185(m) | >20 | 7 | | |
| Lead | ppm | ASTM D5185(m) | >40 | 0 | | |
| Copper | ppm | ASTM D5185(m) | >330 | 2 | | |
| Tin | ppm | ASTM D5185(m) | >15 | 0 | | |
| Antimony | ppm | ASTM D5185(m) | | 0 | | |
| Vanadium | ppm | ASTM D5185(m) | | 0 | | |
| Beryllium | ppm | ASTM D5185(m) | | 0 | | |
| Cadmium | ppm | ASTM D5185(m) | | 0 | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185(m) | 0 | 11 | | |
| Barium | ppm | ASTM D5185(m) | 0 | 0 | | |
| Molybdenum | ppm | ASTM D5185(m) | 60 | 59 | | |
| Manganese | ppm | ASTM D5185(m) | 0 | <1 | | |
| Magnesium | ppm | ASTM D5185(m) | 1010 | 923 | | |
| Calcium | ppm | ASTM D5185(m) | 1070 | 1036 | | |
| Phosphorus | ppm | ASTM D5185(m) | 1150 | 983 | | |
| Zinc | ppm | ASTM D5185(m) | 1270 | 1155 | | |
| Sulfur | ppm | ASTM D5185(m) | 2060 | 2501 | | |
| Lithium | ppm | ASTM D5185(m) | | <1 | | |
| CONTAMINANT | S | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185(m) | >25 | 5 | | |
| Sodium | ppm | ASTM D5185(m) | | 2 | | |
| Potassium | ppm | ASTM D5185(m) | >20 | 5 | | |
| Fuel | % | ASTM D7593* | >5 | <mark>/</mark> 3 | | |
| Glycol | % | ASTM D7922* | | 0.0 | | |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | ASTM D7844* | >3 | 0.4 | | |
| Nitration | Abs/cm | ASTM D7624* | >20 | 13.6 | | |
| | Abs/.1mm | ASTM D7415* | >30 | 26.0 | | |
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