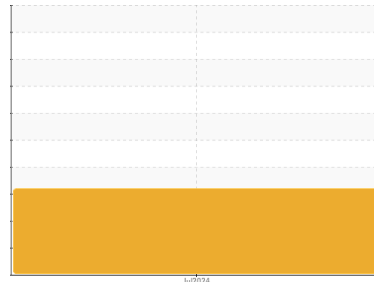




# OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id

**218010**

Component

**Diesel Engine**

Fluid

**PETRO CANADA DURON SAE 15W40 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### ▲ Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

### ▲ Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>GFL0112448</b>	---	---
Sample Date	Client Info	<b>04 Jul 2024</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Oil Age	hrs Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>Not Changd</b>	---	---
Sample Status		<b>SEVERE</b>	---	---

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	<b>NEG</b>	---	---
Glycol	WC Method	<b>NEG</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >100	<b>17</b>	---	---
Chromium	ppm ASTM D5185(m) >20	<b>1</b>	---	---
Nickel	ppm ASTM D5185(m) >4	<b>&lt;1</b>	---	---
Titanium	ppm ASTM D5185(m)	<b>&lt;1</b>	---	---
Silver	ppm ASTM D5185(m) >3	<b>0</b>	---	---
Aluminum	ppm ASTM D5185(m) >20	<b>3</b>	---	---
Lead	ppm ASTM D5185(m) >40	<b>&lt;1</b>	---	---
Copper	ppm ASTM D5185(m) >330	<b>4</b>	---	---
Tin	ppm ASTM D5185(m) >15	<b>&lt;1</b>	---	---
Antimony	ppm ASTM D5185(m)	<b>0</b>	---	---
Vanadium	ppm ASTM D5185(m)	<b>0</b>	---	---
Beryllium	ppm ASTM D5185(m)	<b>0</b>	---	---
Cadmium	ppm ASTM D5185(m)	<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 1	<b>4</b>	---	---
Barium	ppm ASTM D5185(m) 1	<b>&lt;1</b>	---	---
Molybdenum	ppm ASTM D5185(m) 60	<b>32</b>	---	---
Manganese	ppm ASTM D5185(m) 1	<b>&lt;1</b>	---	---
Magnesium	ppm ASTM D5185(m) 1010	<b>548</b>	---	---
Calcium	ppm ASTM D5185(m) 1070	<b>621</b>	---	---
Phosphorus	ppm ASTM D5185(m) 1150	<b>586</b>	---	---
Zinc	ppm ASTM D5185(m) 1270	<b>655</b>	---	---
Sulfur	ppm ASTM D5185(m) 2060	<b>1365</b>	---	---
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	<b>18</b>	---	---
Sodium	ppm ASTM D5185(m)	<b>4</b>	---	---
Potassium	ppm ASTM D5185(m) >20	<b>1</b>	---	---
Fuel	% ASTM D7593* >2.0	<b>▲ 45.2</b>	---	---

## INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	<b>0</b>	---	---
Nitration	Abs/cm ASTM D7624* >20	<b>6.4</b>	---	---
Sulfation	Abs./1mm ASTM D7415* >30	<b>17.8</b>	---	---

