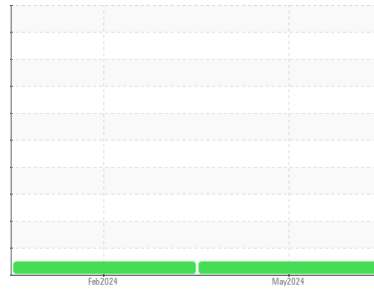




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id

**113006**

Component

**Diesel Engine**

Fluid

**PETRO CANADA DURON SAE 10W30 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

Metal levels are typical for a new component breaking in.

### Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

### Fluid Condition

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

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0118562</b>	GFL0107875	---
Sample Date	Client Info		<b>06 May 2024</b>	05 Feb 2024	---
Machine Age	kms	Client Info	<b>54783</b>	47407	---
Oil Age	kms	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	Changed	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water	WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol	WC Method		<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	<b>14</b>	18	---
Chromium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185(m) >4	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Silver	ppm	ASTM D5185(m) >3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m) >20	<b>6</b>	10	---
Lead	ppm	ASTM D5185(m) >40	<b>0</b>	<1	---
Copper	ppm	ASTM D5185(m) >330	<b>&lt;1</b>	<1	---
Tin	ppm	ASTM D5185(m) >15	<b>0</b>	<1	---
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 1	<b>6</b>	8	---
Barium	ppm	ASTM D5185(m) 1	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m) 1	<b>60</b>	60	---
Manganese	ppm	ASTM D5185(m) 1	<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185(m) 10	<b>976</b>	951	---
Calcium	ppm	ASTM D5185(m) 2942	<b>1080</b>	1099	---
Phosphorus	ppm	ASTM D5185(m) 1102	<b>966</b>	1010	---
Zinc	ppm	ASTM D5185(m) 1351	<b>1172</b>	1181	---
Sulfur	ppm	ASTM D5185(m) 3903	<b>2473</b>	2695	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>3</b>	4	---
Sodium	ppm	ASTM D5185(m)	<b>1</b>	1	---
Potassium	ppm	ASTM D5185(m) >20	<b>14</b>	19	---

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	<b>0.2</b>	0.2	---
Nitration	Abs/cm	ASTM D7624* >20	<b>7.6</b>	7.8	---
Sulfation	Abs./1mm	ASTM D7415* >30	<b>19.4</b>	19.9	---

