



# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**522037**

Component  
**Diesel Engine**

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

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### 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>GFL0047661</b>	---	---
Sample Date	Client Info		<b>03 Jan 2024</b>	---	---
Machine Age	hrs	Client Info	<b>9822</b>	---	---
Oil Age	hrs	Client Info	<b>604</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	---	---
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) >165	<b>30</b>	---	---
Chromium	ppm	ASTM D5185(m) >5	<b>1</b>	---	---
Nickel	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m) >2	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185(m) >20	<b>4</b>	---	---
Lead	ppm	ASTM D5185(m) >150	<b>3</b>	---	---
Copper	ppm	ASTM D5185(m) >90	<b>1</b>	---	---
Tin	ppm	ASTM D5185(m) >5	<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) 2	<b>3</b>	---	---
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m) 50	<b>62</b>	---	---
Manganese	ppm	ASTM D5185(m) 0	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m) 950	<b>1005</b>	---	---
Calcium	ppm	ASTM D5185(m) 1050	<b>1137</b>	---	---
Phosphorus	ppm	ASTM D5185(m) 995	<b>1042</b>	---	---
Zinc	ppm	ASTM D5185(m) 1180	<b>1244</b>	---	---
Sulfur	ppm	ASTM D5185(m) 2600	<b>2618</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

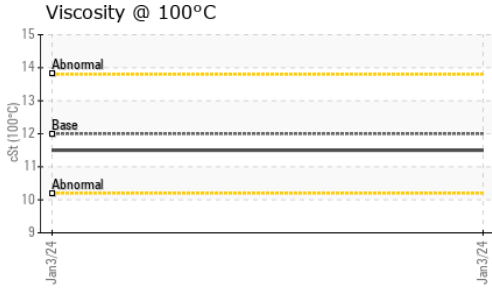
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >35	<b>4</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>2</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>13</b>	---	---

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >7.5	<b>1.1</b>	---	---
Nitration	Abs/cm	ASTM D7624* >20	<b>11.4</b>	---	---
Sulfation	Abs./1mm	ASTM D7415* >30	<b>23.2</b>	---	---



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### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>18.3</b>	---

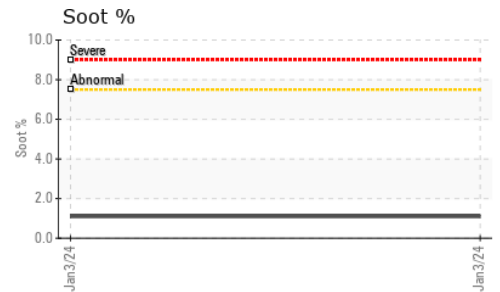
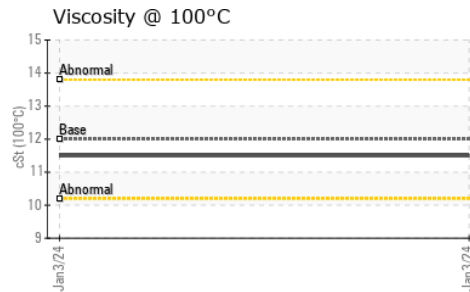
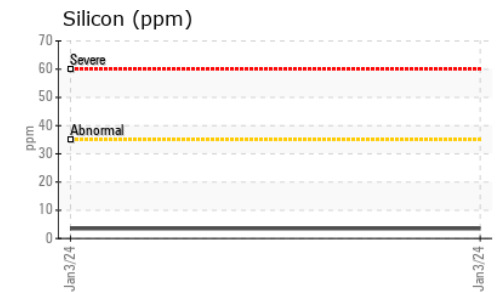
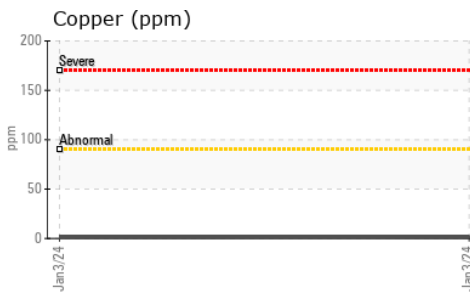
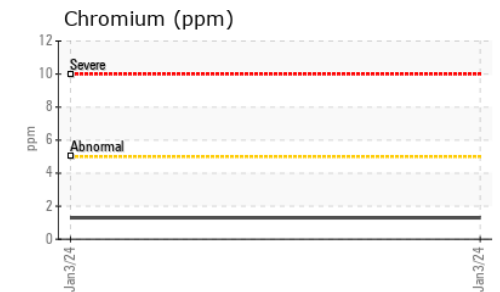
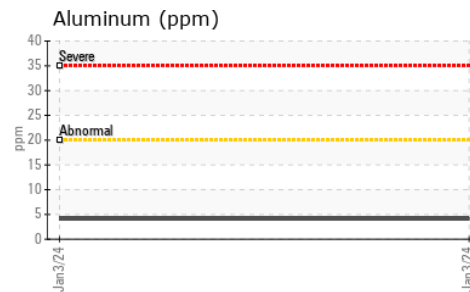
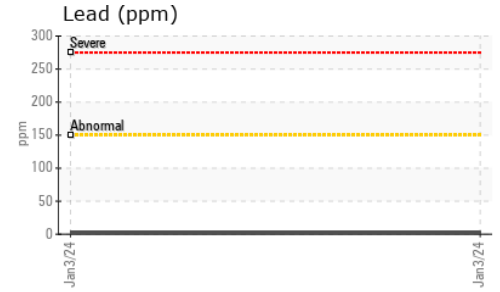
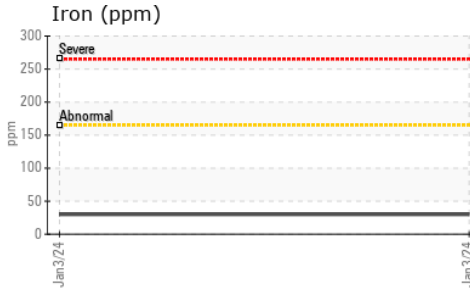
### VISUAL

	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	---
Free Water	scalar	Visual*		<b>NEG</b>	---

### FLUID PROPERTIES

	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>11.5</b>	---

### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 355 - Saskatoon  
**Sample No.** : GFL0047661 **Received** : 22 Jan 2024  
**Lab Number** : 02610237 **Diagnosed** : 23 Jan 2024  
**Unique Number** : 5711323 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

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.

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