



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**114004**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SAE 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>GFL0107882</b>	---	---
Sample Date	Client Info		<b>07 Feb 2024</b>	---	---
Machine Age	kms	Client Info	<b>0</b>	---	---
Oil Age	kms	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<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) >100	<b>20</b>	---	---
Chromium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m) >3	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185(m) >20	<b>6</b>	---	---
Lead	ppm	ASTM D5185(m) >40	<b>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>11</b>	---	---
Barium	ppm	ASTM D5185(m) 1	<b>&lt;1</b>	---	---
Molybdenum	ppm	ASTM D5185(m) 1	<b>56</b>	---	---
Manganese	ppm	ASTM D5185(m) 1	<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185(m) 10	<b>928</b>	---	---
Calcium	ppm	ASTM D5185(m) 2942	<b>1109</b>	---	---
Phosphorus	ppm	ASTM D5185(m) 1102	<b>994</b>	---	---
Zinc	ppm	ASTM D5185(m) 1351	<b>1133</b>	---	---
Sulfur	ppm	ASTM D5185(m) 3903	<b>2724</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

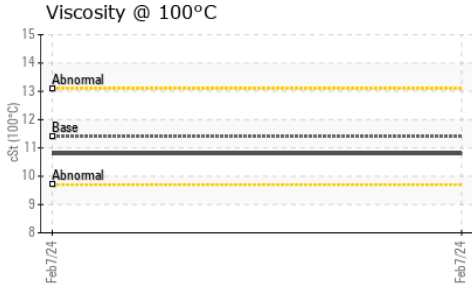
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>10</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>1</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>15</b>	---	---

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	<b>0.1</b>	---	---
Nitration	Abs/cm	ASTM D7624* >20	<b>7.3</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415* >30	<b>19.3</b>	---	---



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### FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs./1mm ASTM D7414*	>25	15.0	---	---

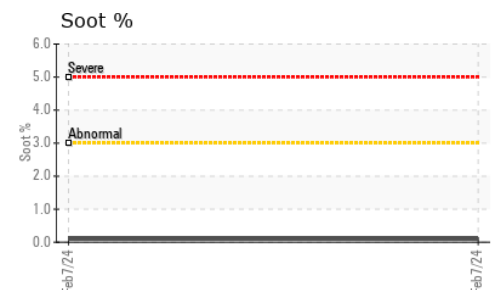
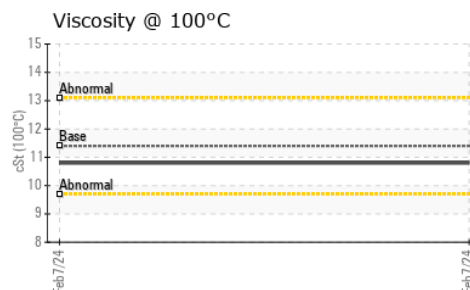
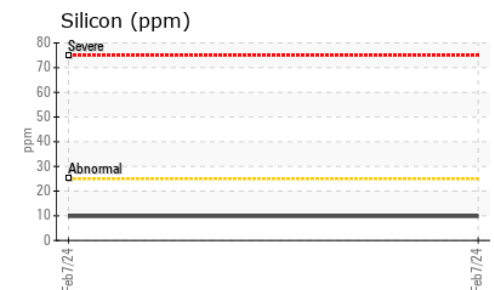
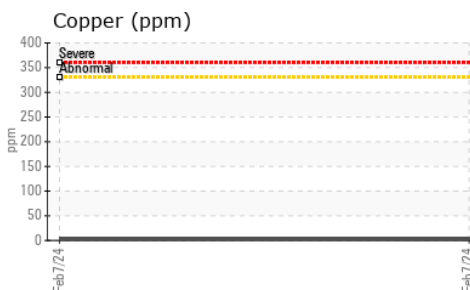
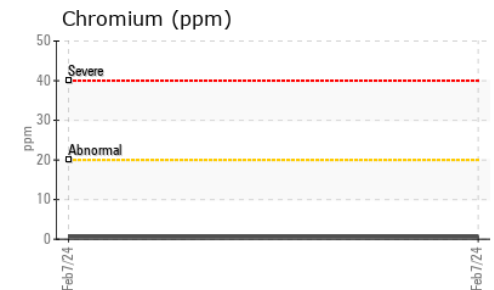
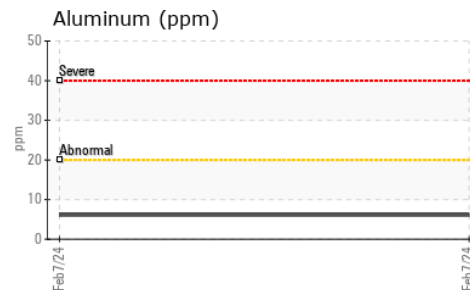
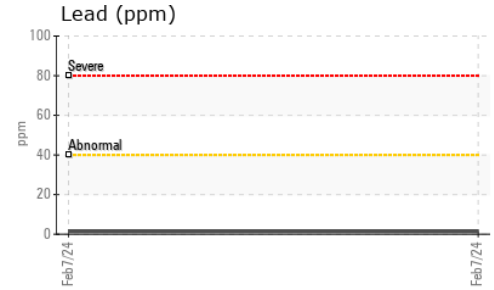
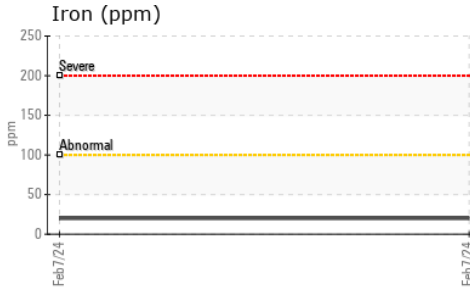
### VISUAL

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

### FLUID PROPERTIES

method	limit/base	current	history1	history2	
Visc @ 100°C	cSt ASTM D7279(m)	11.4	10.8	---	---

### GRAPHS



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 310 - Winnipeg**  
**Sample No.** : GFL0107882 **Received** : 12 Feb 2024 #360 – 555 Hervo Street,  
**Lab Number** : 02614901 **Tested** : 12 Feb 2024 Winnipeg, MB  
**Unique Number** : 5723996 **Diagnosed** : 12 Feb 2024 - Wes Davis CA R3T 3L6  
**Test Package** : MOB 1 Contact: Joshua Lourenco  
 jlourenco@gflenv.com

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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