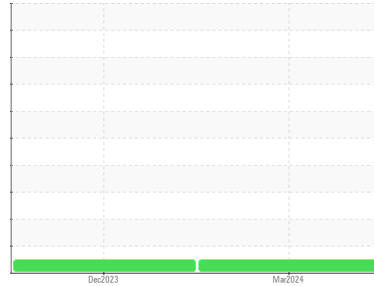




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**401144**

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

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>GFL0102674</b>	GFL0101706	---
Sample Date	Client Info		<b>20 Mar 2024</b>	26 Dec 2023	---
Machine Age	hrs	Client Info	<b>16270</b>	15733	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>Changed</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)	>80	<b>21</b>	22	---
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</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)	>30	<b>2</b>	4	---
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	0	---
Copper	ppm	ASTM D5185(m)	>150	<b>1</b>	1	---
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	0	---
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)	2	<b>3</b>	14	---
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	50	<b>56</b>	55	---
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	---
Magnesium	ppm	ASTM D5185(m)	950	<b>924</b>	859	---
Calcium	ppm	ASTM D5185(m)	1050	<b>1005</b>	1012	---
Phosphorus	ppm	ASTM D5185(m)	995	<b>930</b>	966	---
Zinc	ppm	ASTM D5185(m)	1180	<b>1138</b>	1065	---
Sulfur	ppm	ASTM D5185(m)	2600	<b>2324</b>	2805	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---

## CONTAMINANTS

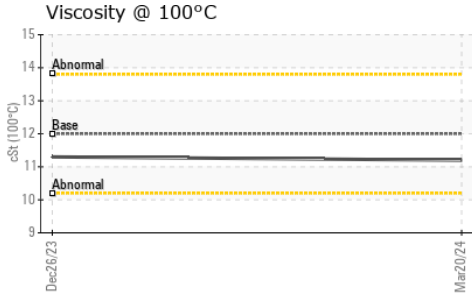
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>20	<b>3</b>	5	---
Sodium	ppm	ASTM D5185(m)		<b>6</b>	6	---
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	6	---

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	<b>0.3</b>	0.3	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.5</b>	8.6	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.6</b>	24.5	---



# OIL ANALYSIS REPORT



### FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs./1mm ASTM D7414*	>25	18.4	23.0	---

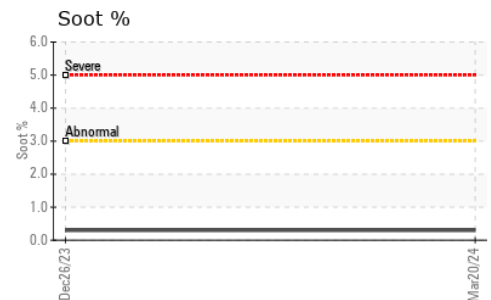
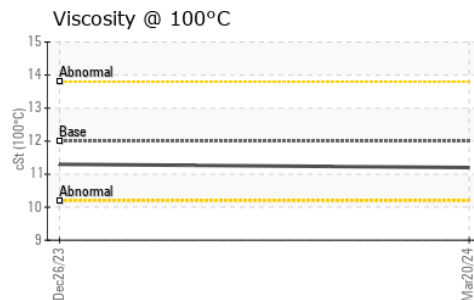
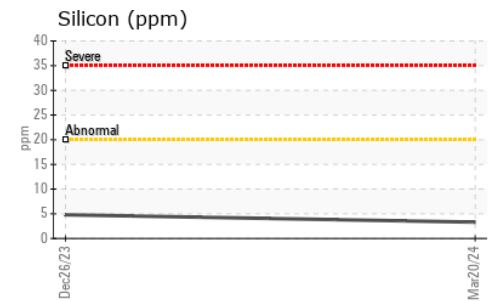
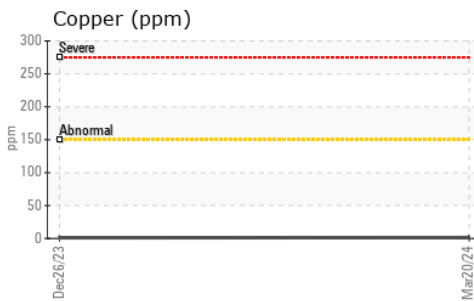
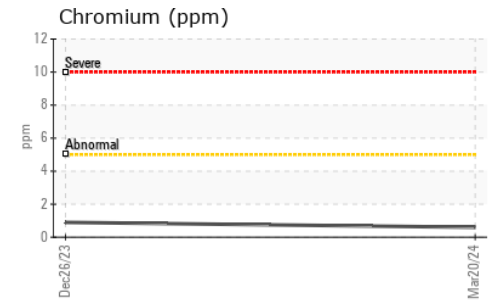
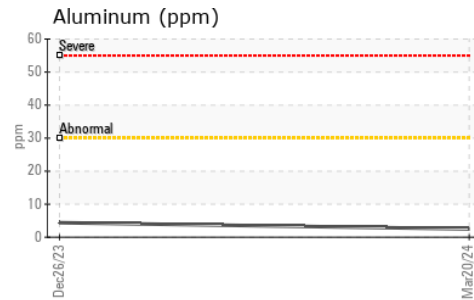
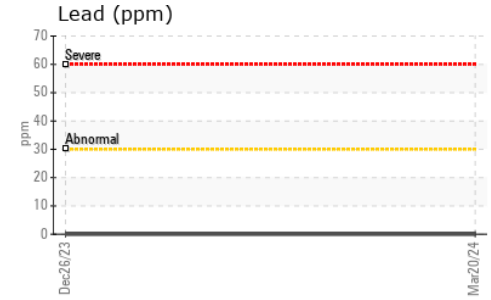
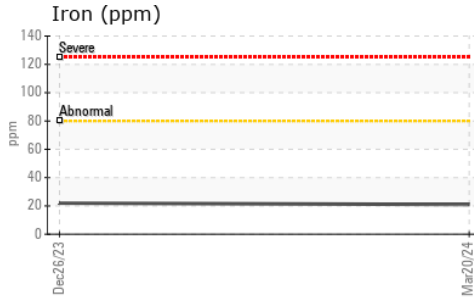
### VISUAL

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

### FLUID PROPERTIES

method	limit/base	current	history1	history2	
Visc @ 100°C	cSt ASTM D7279(m)	12.00	11.2	11.3	---

### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 554 - Edmonton SW**  
**Sample No.** : GFL0102674 **Received** : 27 Mar 2024 **8409 -15th Street NW**  
**Lab Number** : 02624847 **Tested** : 27 Mar 2024 **Edmonton, AB**  
**Unique Number** : 5749966 **Diagnosed** : 27 Mar 2024 - Wes Davis **CA T6P 0B8**  
**Test Package** : MOB 1 **Contact: Kenny Hawkins**  
**khawkins2@gflenv.com**  
**T: (780)444-8805**  
**F:**

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.