



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area

[1276278]

Machine Id

219014

Component

Diesel Engine

Fluid

PETRO CANADA DURON SHP 15W40 (--- GAL)

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0118528</b>	GFL0110706	---
Sample Date		Client Info		<b>13 May 2024</b>	24 Jan 2024	---
Machine Age	hrs	Client Info		<b>8681</b>	8221	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	Changed	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>23</b>	24	---
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>4</b>	7	---
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	1	---
Copper	ppm	ASTM D5185(m)	>330	<b>4</b>	4	---
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---

## CONTAMINATION

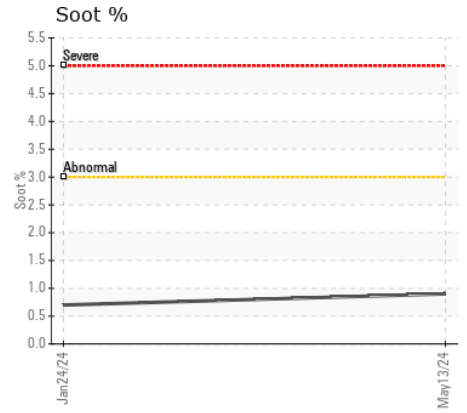
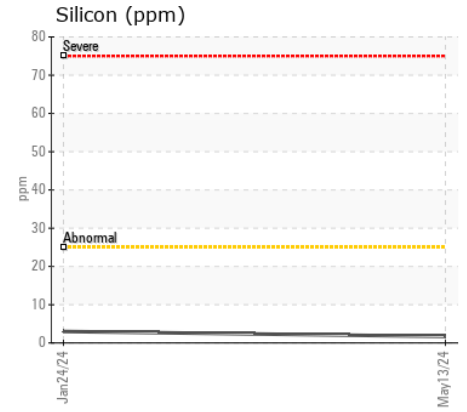
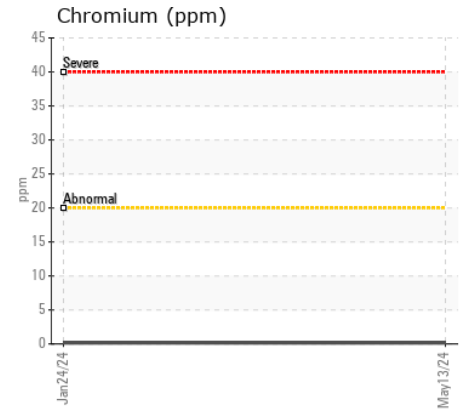
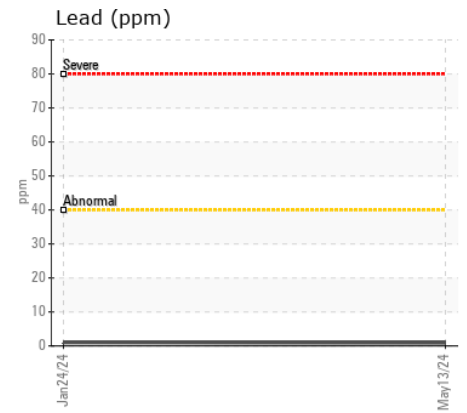
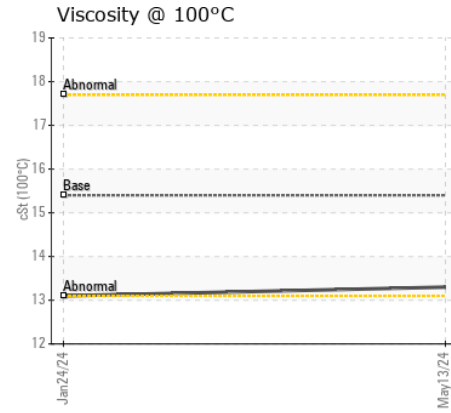
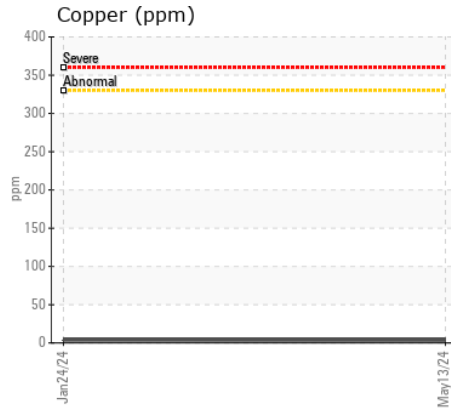
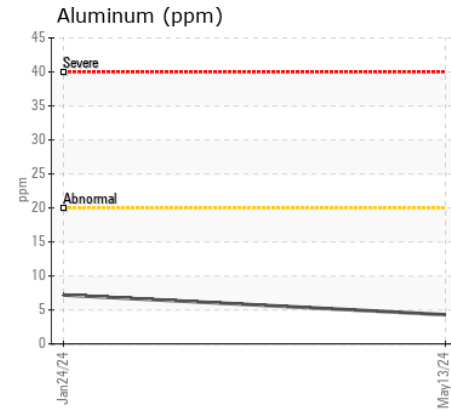
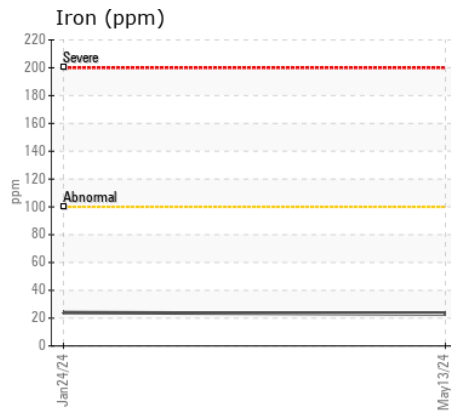
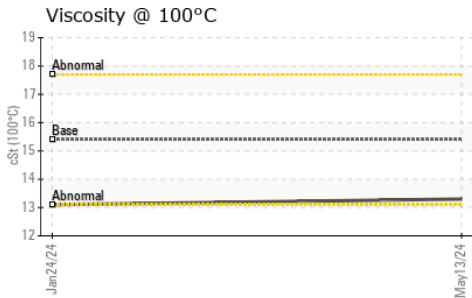
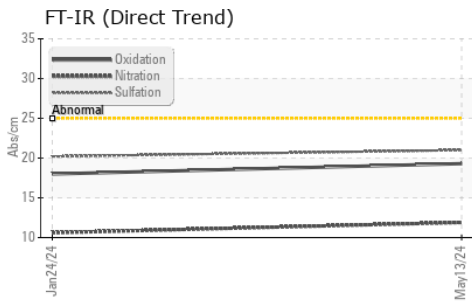
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	3	---
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	7	---
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>	0.0	---
Soot %	%	ASTM D7844*	>3	<b>0.9</b>	0.7	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.9</b>	10.6	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.0</b>	20.2	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	---

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<b>3</b>	2	---
Boron	ppm	ASTM D5185(m)	0	<b>2</b>	3	---
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	60	<b>60</b>	59	---
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	1010	<b>983</b>	948	---
Calcium	ppm	ASTM D5185(m)	1070	<b>1066</b>	1064	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1016</b>	1022	---
Zinc	ppm	ASTM D5185(m)	1270	<b>1202</b>	1188	---
Sulfur	ppm	ASTM D5185(m)	2060	<b>2525</b>	2767	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>19.3</b>	18.0	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.3</b>	13.1	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0118528 **Received** : 15 May 2024  
**Lab Number** : 02635579 **Tested** : 15 May 2024  
**Unique Number** : 5776732 **Diagnosed** : 15 May 2024 - Kevin Marson  
**Test Package** : MOB 1

**GFL Environmental - 207 - Pickering SW**  
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 PICKERING, ON  
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 Contact: Ian Patton  
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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.