



# OIL ANALYSIS REPORT

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

Machine Id  
**527099**  
Component  
**Front Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (40 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0124640</b>	GFL0087355	---
Sample Date		Client Info		<b>10 Jun 2024</b>	03 Aug 2023	---
Machine Age	hrs	Client Info		<b>21544</b>	0	---
Oil Age	hrs	Client Info		<b>500</b>	0	---
Filter Age	hrs	Client Info		<b>500</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>49</b>	57	---
Chromium	ppm	ASTM D5185(m)	>20	<b>4</b>	4	---
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>11</b>	90	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>4</b>	9	---
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	1	---
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	6	---
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	<1	---

## CONTAMINATION

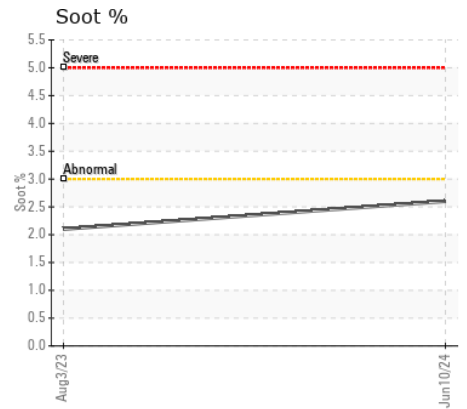
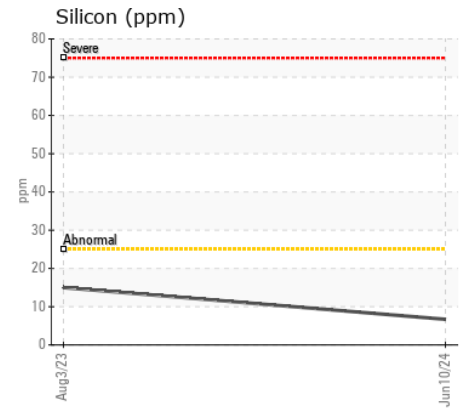
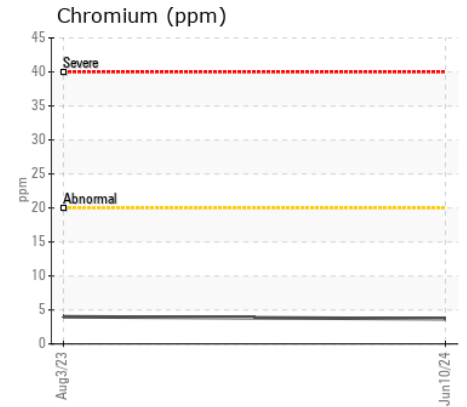
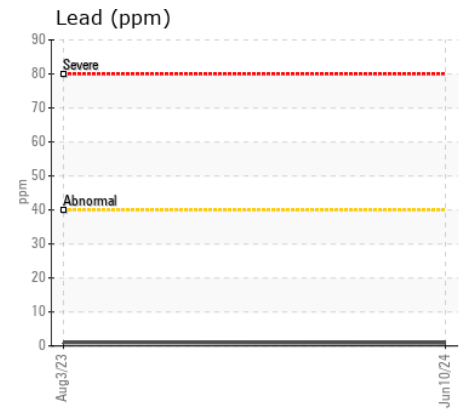
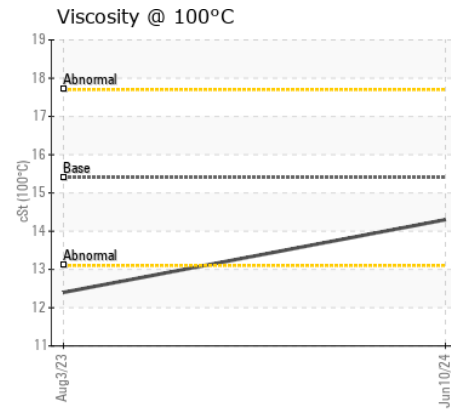
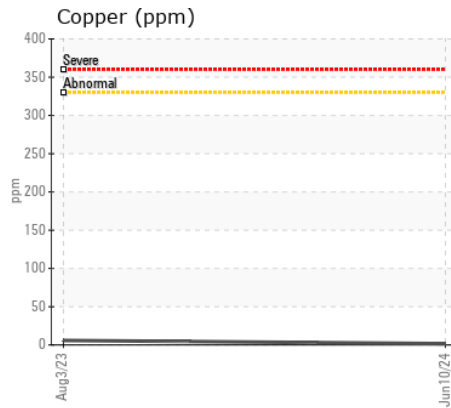
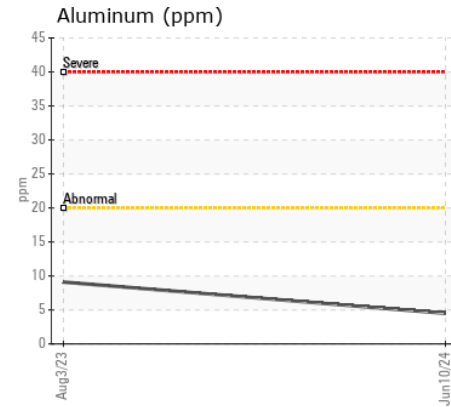
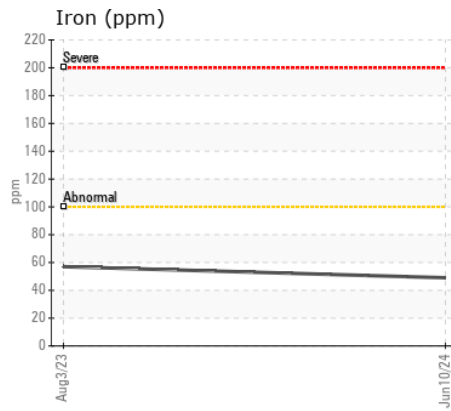
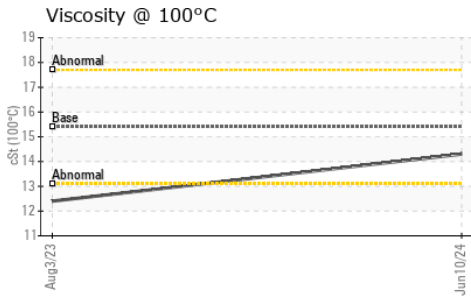
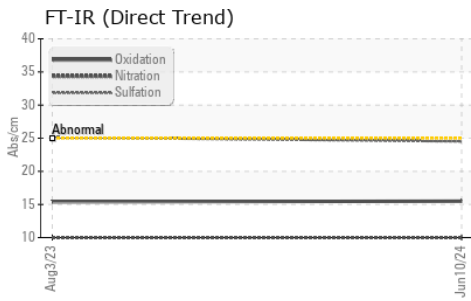
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>7</b>	15	---
Potassium	ppm	ASTM D5185(m)	>20	<b>4</b>	4	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	1.4	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	ASTM D7844*	>3	<b>2.6</b>	2.1	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.0</b>	10.0	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>24.5</b>	25.1	---
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>5</b>	6	---
Boron	ppm	ASTM D5185(m)	0	<b>11</b>	89	---
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	60	<b>51</b>	4	---
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	1010	<b>820</b>	378	---
Calcium	ppm	ASTM D5185(m)	1070	<b>1212</b>	2032	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>938</b>	1034	---
Zinc	ppm	ASTM D5185(m)	1270	<b>1161</b>	1175	---
Sulfur	ppm	ASTM D5185(m)	2060	<b>2438</b>	2859	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.5</b>	15.4	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.3</b>	▲ 12.4	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0124640  
**Lab Number** : 02643068  
**Unique Number** : 5800607  
**Test Package** : MOB 1  
**Received** : 20 Jun 2024  
**Tested** : 20 Jun 2024  
**Diagnosed** : 20 Jun 2024 - Wes Davis

**GFL Environmental - 720 - Lafleche - Landfill**  
 17125 Lafleche Road,  
 Moose Creek, ON  
 CA K0C 1W0  
 Contact: Charles Bergeron  
 cbergeron@gflenv.com  
 T: (613)538-4853  
 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.