

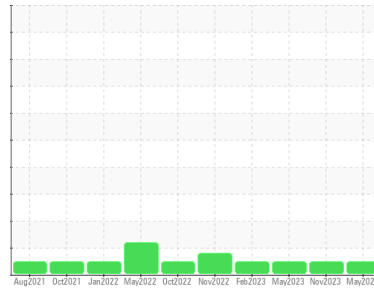


# OIL ANALYSIS REPORT



Machine Id  
**401102**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

### Sample Rating Trend



**NORMAL**



### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: Corrected hours on truck, previous were klm )

#### 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>GFL0080091</b>	GFL0095027	GFL0044702
Sample Date	Client Info		<b>07 May 2024</b>	19 Nov 2023	16 May 2023
Machine Age	hrs	Client Info	<b>28813</b>	27981	27017
Oil Age	hrs	Client Info	<b>600</b>	600	600
Oil Changed		Client Info	<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

### CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	<b>4</b>	4
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1
Copper	ppm	ASTM D5185(m)	>330	<b>4</b>	2
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</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)	0	<b>2</b>	4
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>58</b>	58
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>954</b>	929
Calcium	ppm	ASTM D5185(m)	1070	<b>1012</b>	1014
Phosphorus	ppm	ASTM D5185(m)	1150	<b>976</b>	984
Zinc	ppm	ASTM D5185(m)	1270	<b>1152</b>	1137
Sulfur	ppm	ASTM D5185(m)	2060	<b>2551</b>	2731
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1

### CONTAMINANTS

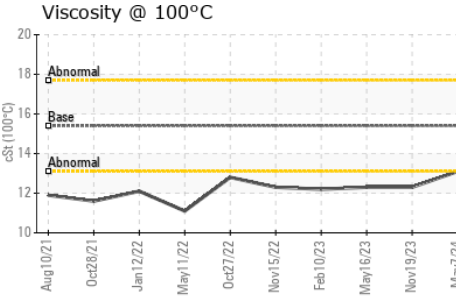
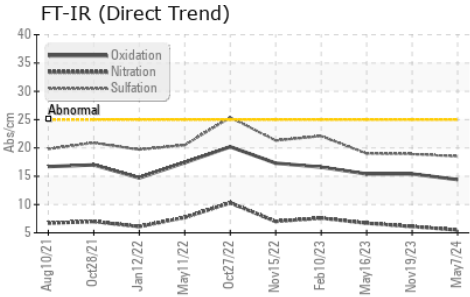
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	2
Sodium	ppm	ASTM D5185(m)		<b>1</b>	1
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1

### INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	<b>0</b>	0.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.5</b>	6.1
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>18.5</b>	18.9



# OIL ANALYSIS REPORT

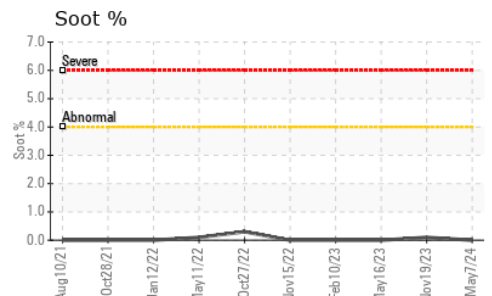
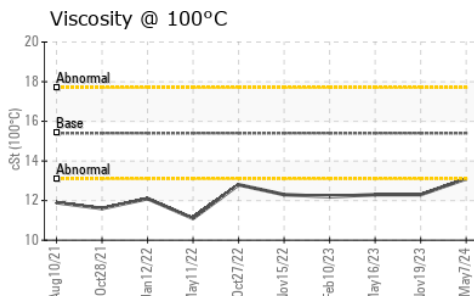
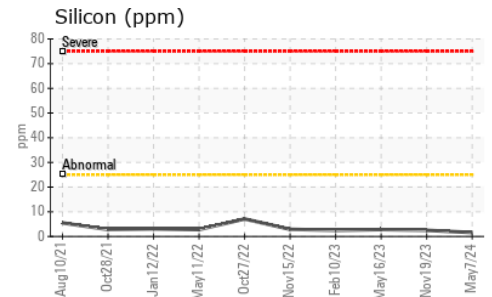
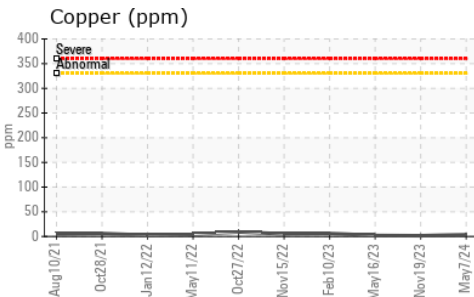
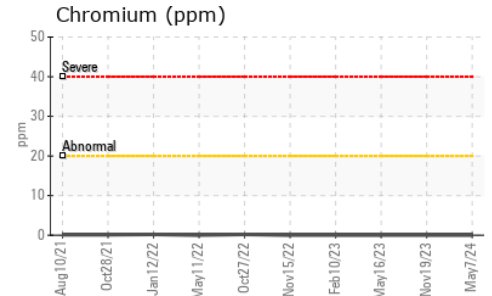
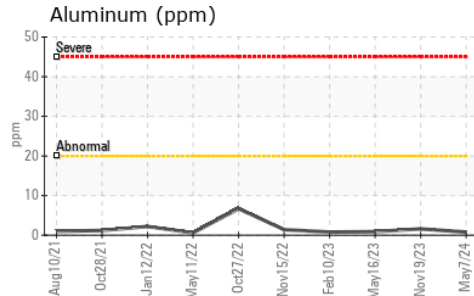
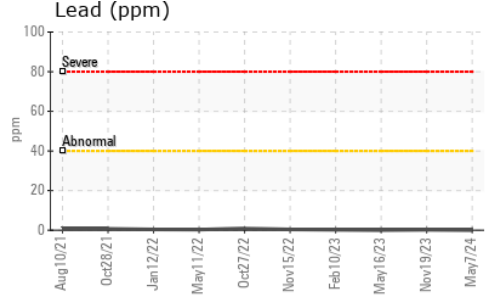
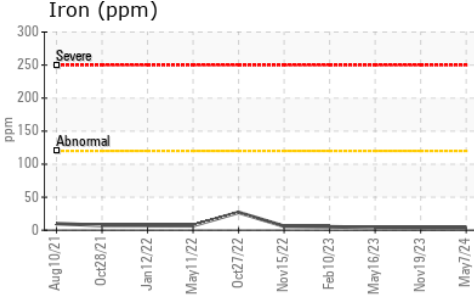


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>14.4</b>	15.4	15.4

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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.1</b>	12.3	12.3

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0080091  
**Lab Number** : **02636838**  
**Unique Number** : 5786000  
**Test Package** : MOB 1  
**Received** : 22 May 2024  
**Tested** : 22 May 2024  
**Diagnosed** : 22 May 2024 - Kevin Marson

**GFL Environmental - 577 - First Class**  
 8540 Chilliwack Mountain Rd,  
 Chilliwack, BC  
 CA V2R 3W8  
 Contact: Derek Jessop  
 djessop@gflenv.com  
 T: (604)798-5301  
 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.