



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



Machine Id  
**8409**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0119024</b>	GFL0112510	GFL0112547
Sample Date		Client Info		<b>19 Jun 2024</b>	15 May 2024	25 Mar 2024
Machine Age	hrs	Client Info		<b>15554</b>	15403	15168
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	<b>9</b>	13	24
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>30	<b>3</b>	3	5
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>150	<b>&lt;1</b>	<1	1
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

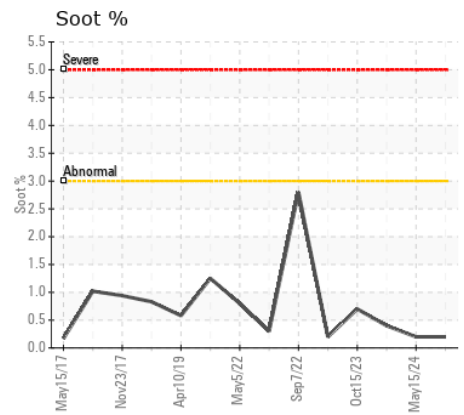
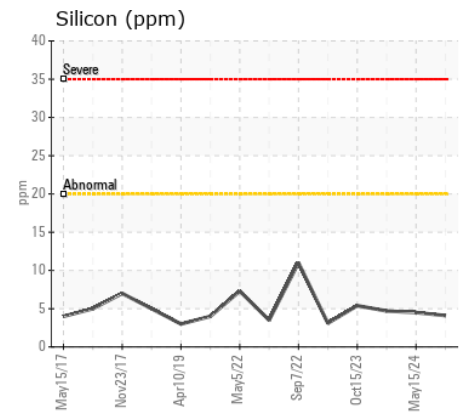
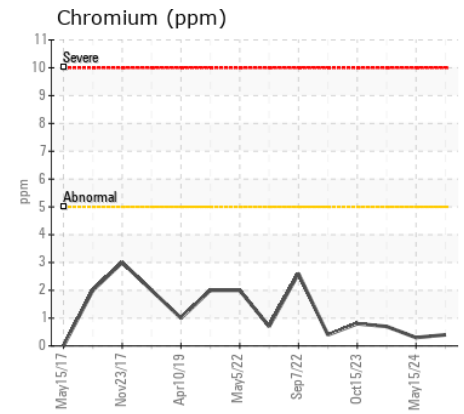
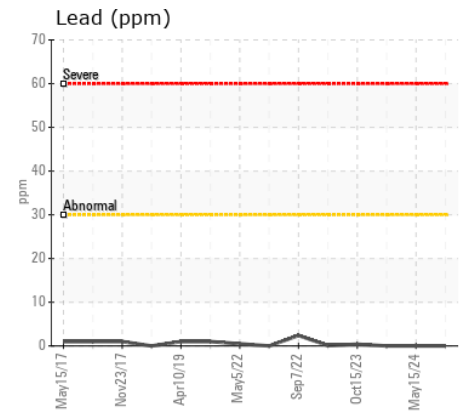
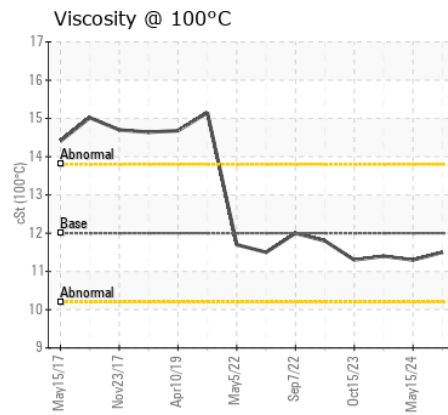
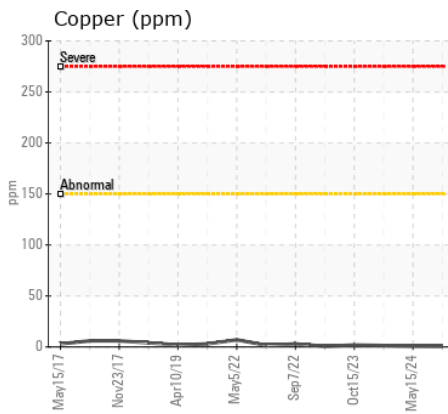
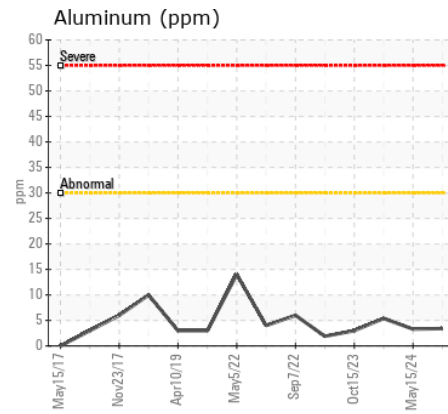
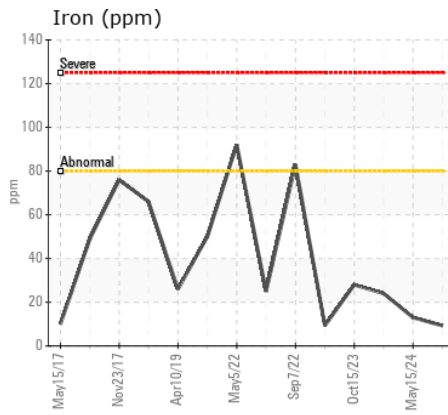
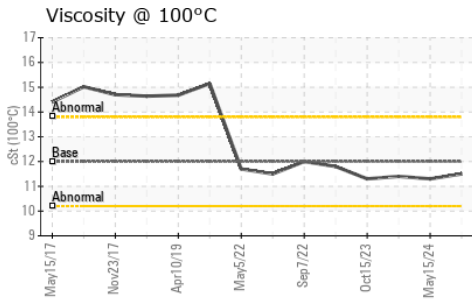
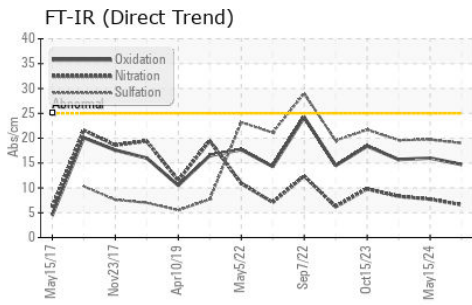
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>4</b>	4	5
Potassium	ppm	ASTM D5185(m)	>20	<b>4</b>	3	1
Fuel		WC Method	>5	<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
Soot %	%	ASTM D7844*	>3	<b>0.2</b>	0.2	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.6</b>	7.7	8.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.0</b>	19.7	19.6
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)		<b>4</b>	4	5
Boron	ppm	ASTM D5185(m)	2	<b>2</b>	3	4
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>57</b>	56	58
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	950	<b>934</b>	918	938
Calcium	ppm	ASTM D5185(m)	1050	<b>1015</b>	1001	1043
Phosphorus	ppm	ASTM D5185(m)	995	<b>963</b>	922	957
Zinc	ppm	ASTM D5185(m)	1180	<b>1155</b>	1119	1154
Sulfur	ppm	ASTM D5185(m)	2600	<b>2469</b>	2363	2388
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.7</b>	16.0	15.7
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>11.5</b>	11.3	11.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0119024  
**Lab Number** : 02643985  
**Unique Number** : 5801524  
**Test Package** : MOB 1

**GFL Environmental - 554 - Edmonton SW**  
 8409 - 15th Street NW  
 Edmonton, AB  
 CA T6P 0B8  
 Contact: Tim Greig  
 tgreig@gflenv.com  
 T: (780)231-0521  
 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.