



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>GFL0112547</b>	GFL0093889	GFL0085963
Sample Date		Client Info		<b>25 Mar 2024</b>	15 Oct 2023	20 Jul 2023
Machine Age	hrs	Client Info		<b>15168</b>	0	144694
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>	N/A	N/A
Filter Changed		Client Info		<b>Changed</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	<b>24</b>	28	9
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>30	<b>5</b>	3	2
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>150	<b>1</b>	2	<1
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

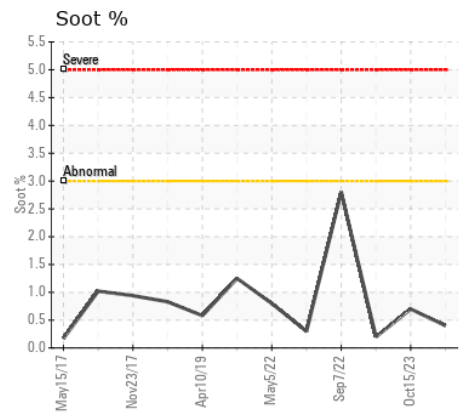
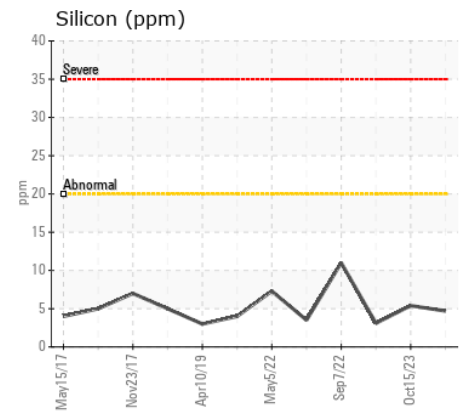
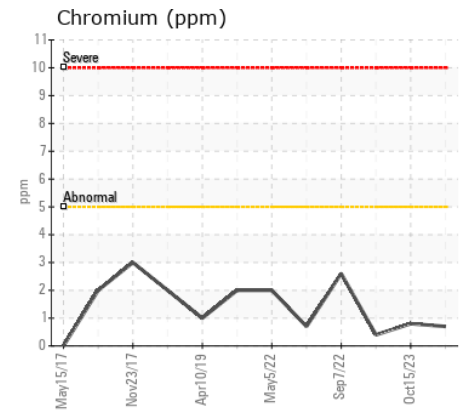
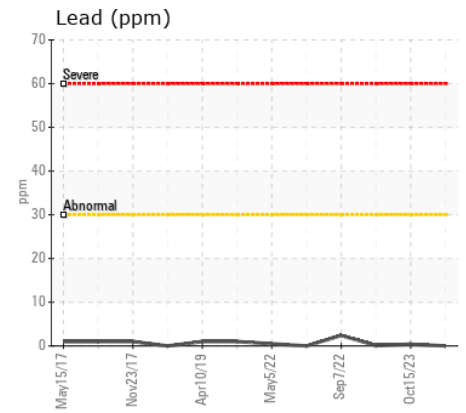
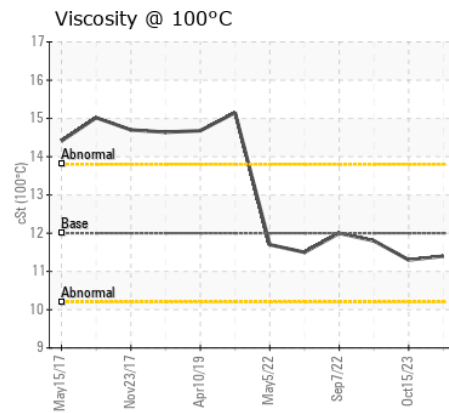
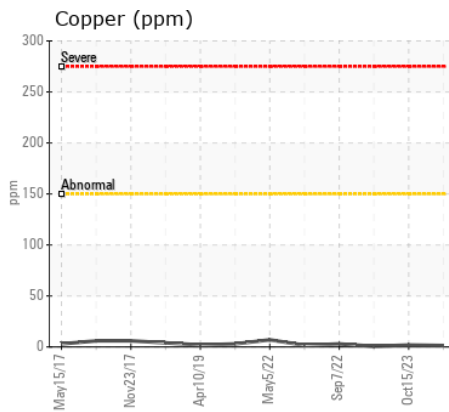
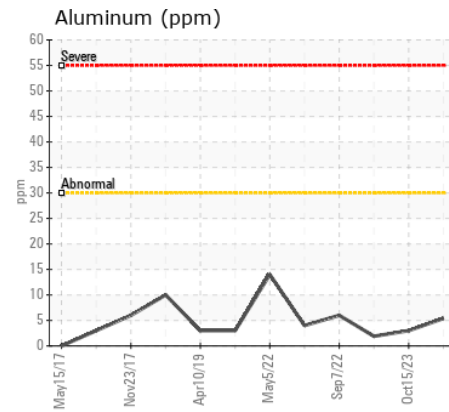
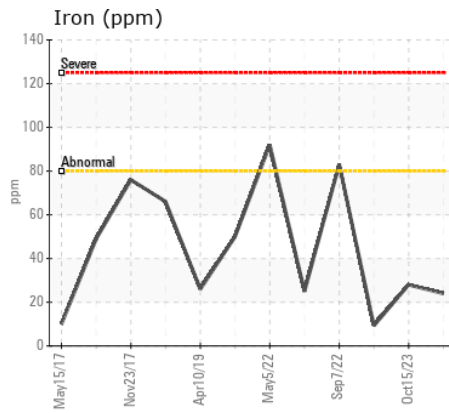
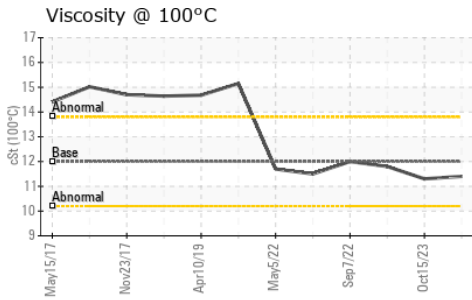
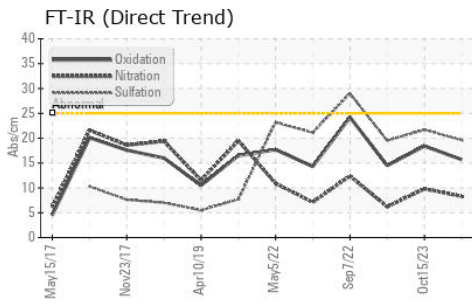
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>5</b>	5	3
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	0	0
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>0.4</b>	0.7	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.3</b>	9.8	6.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.6</b>	21.7	19.5
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>5</b>	7	2
Boron	ppm	ASTM D5185(m)	2	<b>4</b>	8	3
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>58</b>	62	57
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	950	<b>938</b>	948	955
Calcium	ppm	ASTM D5185(m)	1050	<b>1043</b>	1093	1012
Phosphorus	ppm	ASTM D5185(m)	995	<b>957</b>	985	1067
Zinc	ppm	ASTM D5185(m)	1180	<b>1154</b>	1191	1165
Sulfur	ppm	ASTM D5185(m)	2600	<b>2388</b>	2394	2519
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.7</b>	18.4	14.5
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>11.4</b>	11.3	11.8



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0112547  
**Lab Number** : 02626570  
**Unique Number** : 5759702  
**Test Package** : MOB 1

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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.