



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

Machine Id  
**9110**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (36)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0100328</b>	GFL0064976	GFL0065023
Sample Date		Client Info		<b>02 Apr 2024</b>	14 Sep 2023	26 Apr 2023
Machine Age	hrs	Client Info		<b>19546</b>	18956	18411
Oil Age	hrs	Client Info		<b>0</b>	545	488
Filter Age	hrs	Client Info		<b>457</b>	545	488
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	<b>6</b>	8	10
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	2
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	2	3
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	2	<1
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	2	2
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

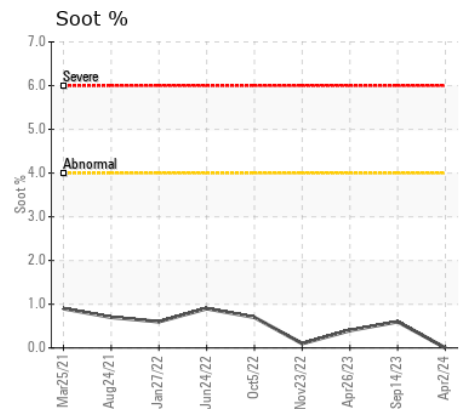
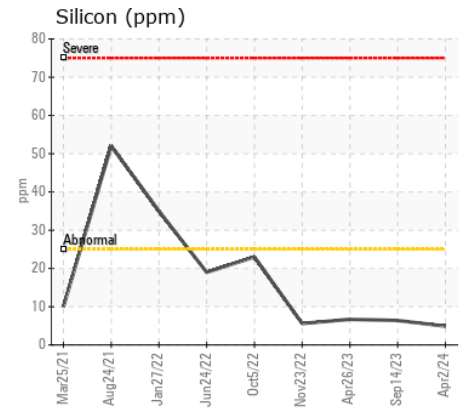
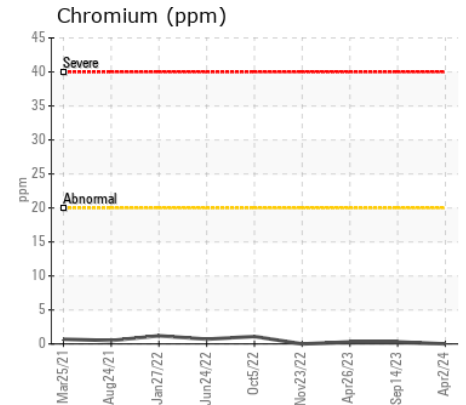
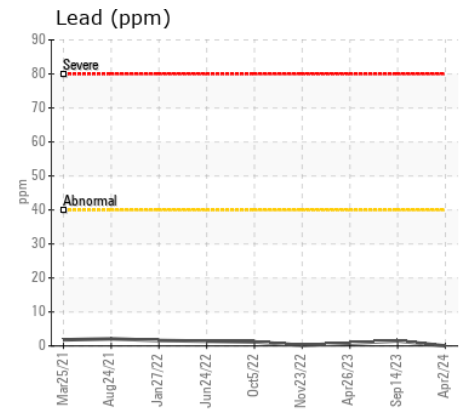
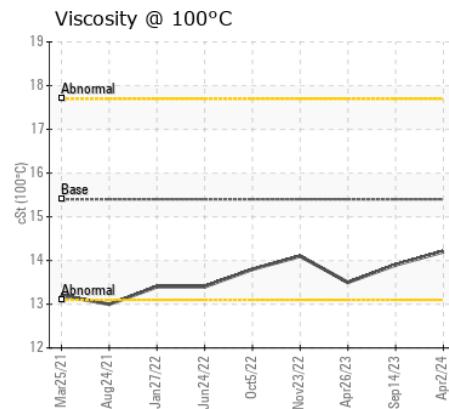
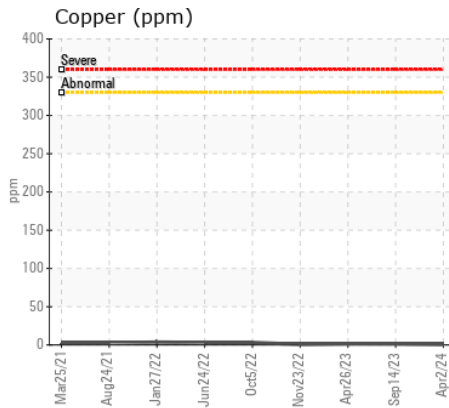
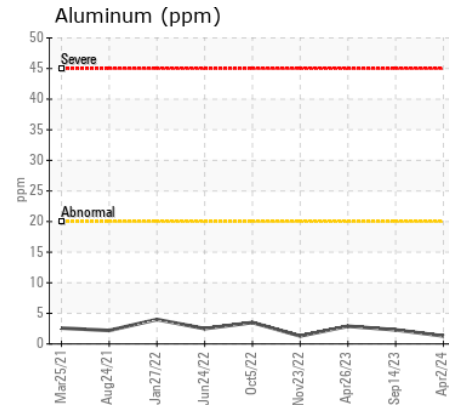
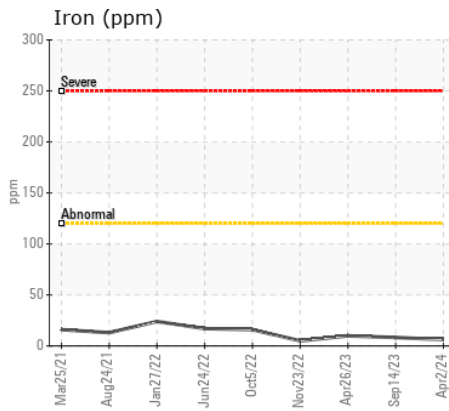
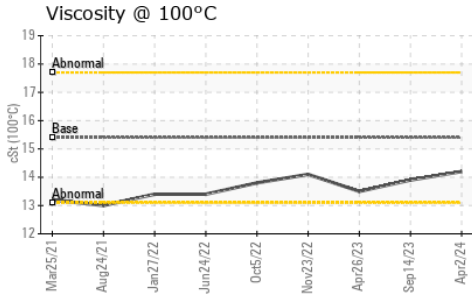
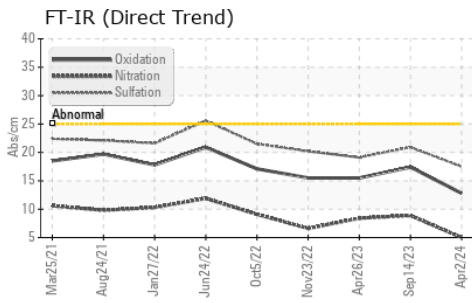
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>5</b>	6	7
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
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
Soot %	%	ASTM D7844*	>4	<b>0</b>	0.6	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.0</b>	8.9	8.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.5</b>	20.9	19.1
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>2</b>	3	2
Boron	ppm	ASTM D5185(m)	0	<b>2</b>	2	8
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>53</b>	56	56
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>877</b>	926	895
Calcium	ppm	ASTM D5185(m)	1070	<b>1007</b>	1031	1108
Phosphorus	ppm	ASTM D5185(m)	1150	<b>929</b>	1012	1042
Zinc	ppm	ASTM D5185(m)	1270	<b>1111</b>	1131	1126
Sulfur	ppm	ASTM D5185(m)	2060	<b>2490</b>	2477	2600
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>12.8</b>	17.4	15.5
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.2</b>	13.9	13.5



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0100328  
**Lab Number** : 02627787  
**Unique Number** : 5760919  
**Test Package** : MOB 1

**GFL Environmental - 556 - Whitecourt**  
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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.