



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



Machine Id  
**OR342**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON HP 15W40 (20 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0113392</b>	GFL0092297	GFL0056404
Sample Date		Client Info		<b>22 May 2024</b>	22 Jan 2024	31 May 2023
Machine Age	hrs	Client Info		<b>19943</b>	19943	19443
Oil Age	hrs	Client Info		<b>500</b>	500	800
Filter Age	hrs	Client Info		<b>500</b>	500	800
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)	>100	<b>16</b>	25	28
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
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)	>25	<b>1</b>	2	2
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	2	3
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

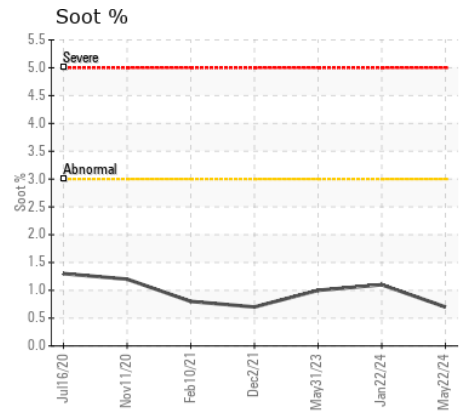
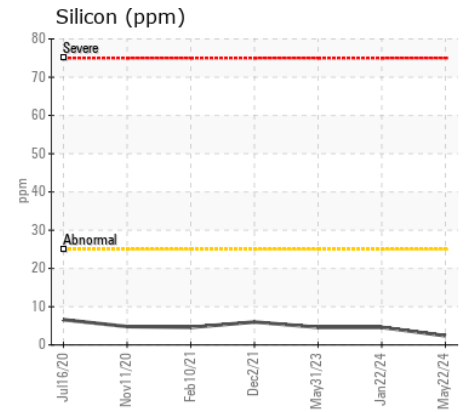
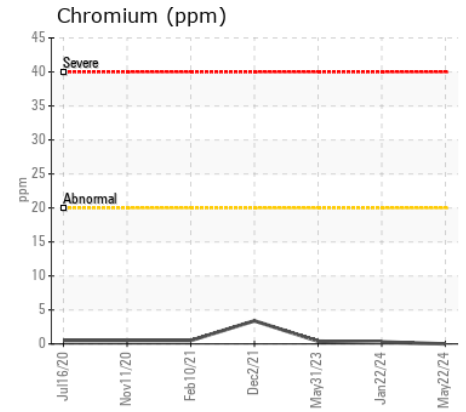
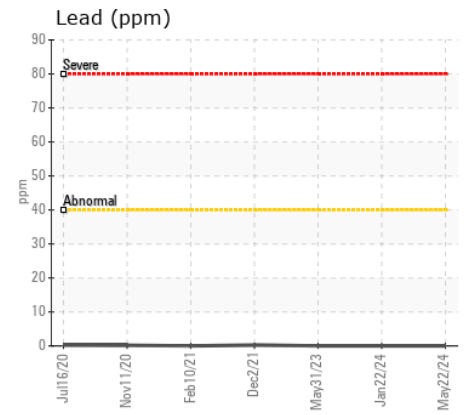
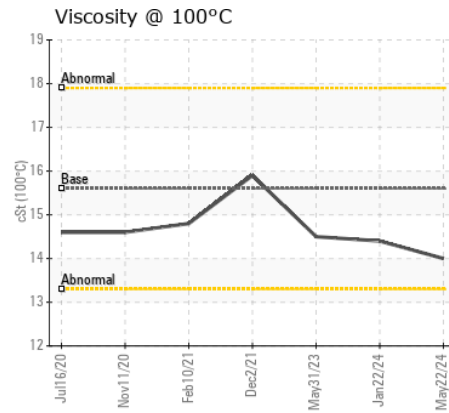
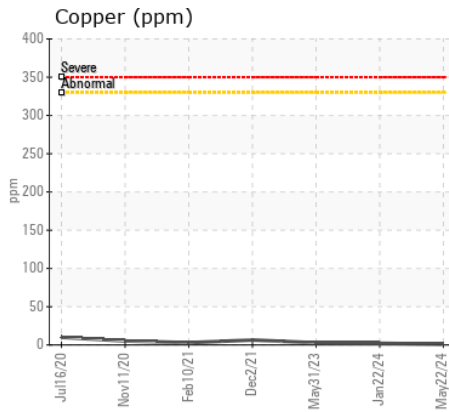
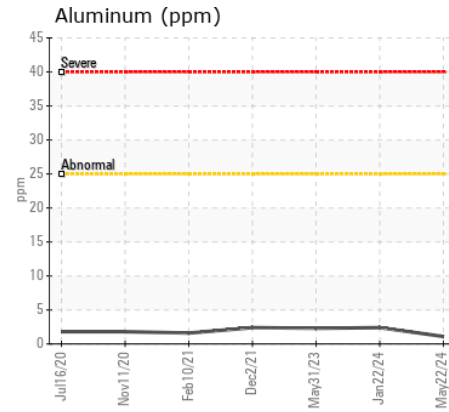
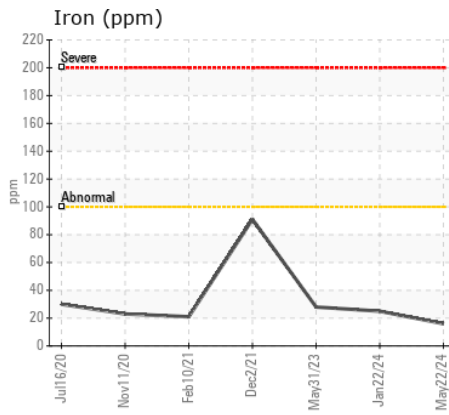
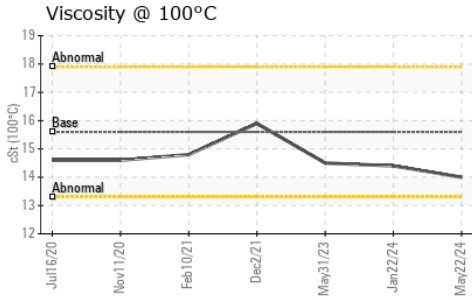
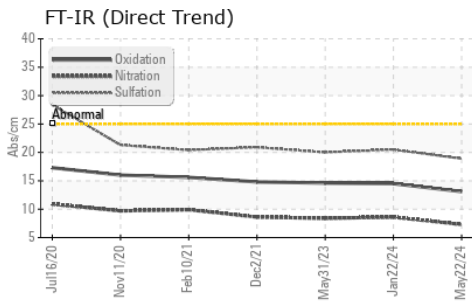
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	5	5
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	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>0.7</b>	1.1	1
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.3</b>	8.6	8.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.9</b>	20.5	20.0
Silt	scalar	Visual*	NONE	<b>NONE</b>	VLITE	---
Debris	scalar	Visual*	NONE	<b>VLITE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
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>3</b>	2	2
Boron	ppm	ASTM D5185(m)	0	<b>7</b>	4	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>55</b>	58	62
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>886</b>	934	987
Calcium	ppm	ASTM D5185(m)	1070	<b>1209</b>	1147	1160
Phosphorus	ppm	ASTM D5185(m)	1150	<b>995</b>	1009	1132
Zinc	ppm	ASTM D5185(m)	1270	<b>1193</b>	1188	1242
Sulfur	ppm	ASTM D5185(m)	2060	<b>2509</b>	2610	2663
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.1</b>	14.5	14.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>14.0</b>	14.4	14.5



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0113392  
**Lab Number** : 02637081  
**Unique Number** : 5786243  
**Test Package** : MOB 1 ( Additional Tests: Visual )

**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.