



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



Machine Id

**EX0358**

Component

**Rear Diesel Engine**

Fluid

**PETRO CANADA DURON SHP 15W40 (24 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0113350</b>	GFL0092324	GFL0087357
Sample Date		Client Info		<b>16 May 2024</b>	09 Feb 2024	28 Jul 2023
Machine Age	hrs	Client Info		<b>22579</b>	22386	22000
Oil Age	hrs	Client Info		<b>200</b>	386	500
Filter Age	hrs	Client Info		<b>200</b>	386	500
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>8</b>	14	6
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	3	2
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	3	<1
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	1	3
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

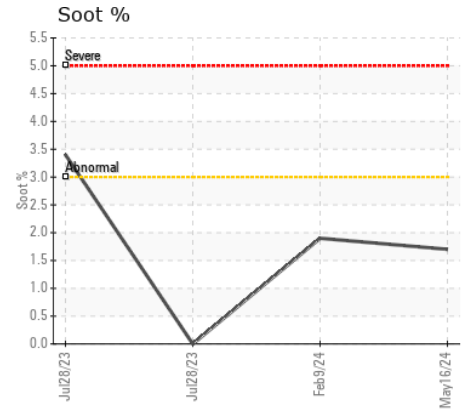
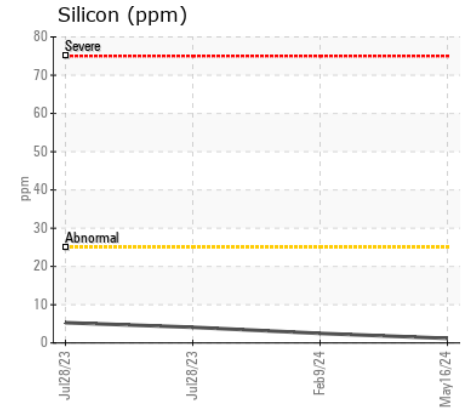
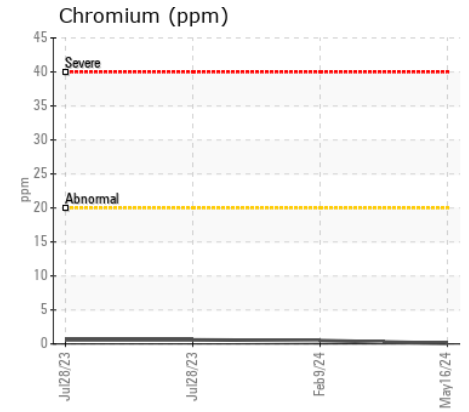
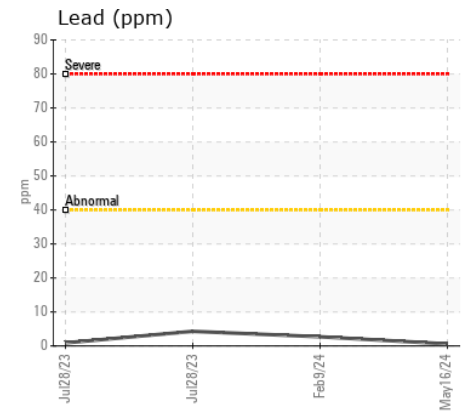
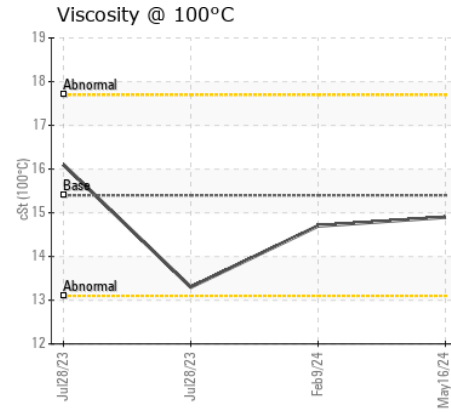
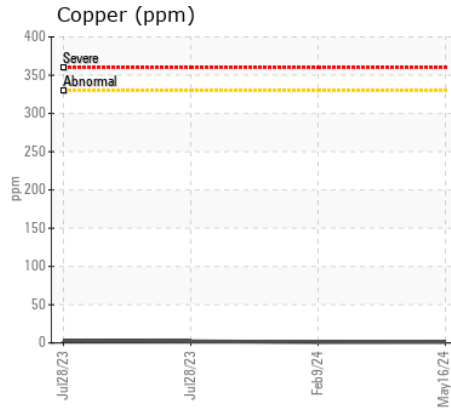
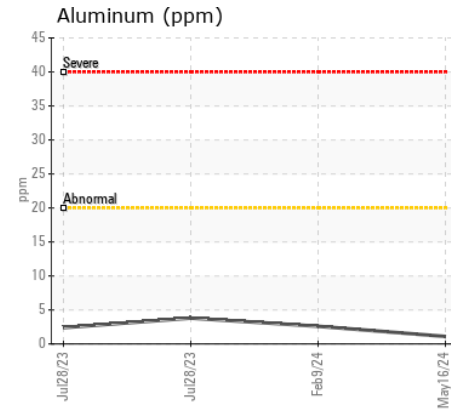
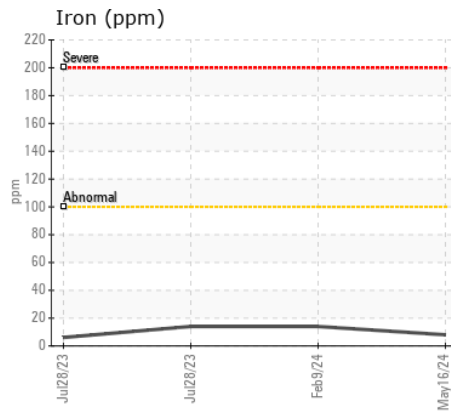
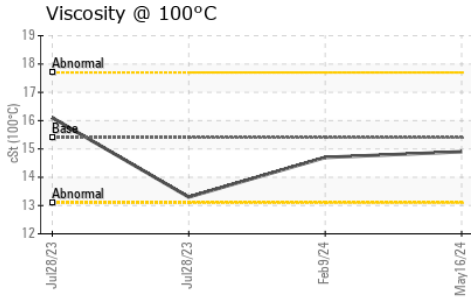
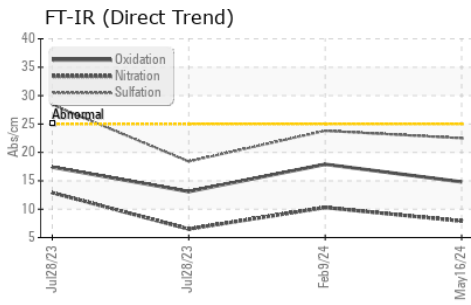
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>1</b>	2	5
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	1	8
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	0.0
Soot %	%	ASTM D7844*	>3	<b>1.7</b>	1.9	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.9</b>	10.3	6.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.5</b>	23.8	18.4
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>1</b>	2	22
Boron	ppm	ASTM D5185(m)	0	<b>5</b>	8	4
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>58</b>	60	66
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>933</b>	907	1013
Calcium	ppm	ASTM D5185(m)	1070	<b>1143</b>	1227	1156
Phosphorus	ppm	ASTM D5185(m)	1150	<b>988</b>	1016	1076
Zinc	ppm	ASTM D5185(m)	1270	<b>1194</b>	1197	1228
Sulfur	ppm	ASTM D5185(m)	2060	<b>2467</b>	2645	2476
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.8</b>	17.9	13.1
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.9</b>	14.7	13.3



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0113350  
**Lab Number** : 02636892  
**Unique Number** : 5786054  
**Test Package** : MOB 1  
**Received** : 22 May 2024  
**Tested** : 22 May 2024  
**Diagnosed** : 22 May 2024 - Wes Davis

**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.