



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

Machine Id  
**7796**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (40 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0120080</b>	GFL0097003	GFL0076503
Sample Date		Client Info		<b>14 May 2024</b>	04 Oct 2023	05 Jul 2023
Machine Age	kms	Client Info		<b>151662</b>	145250	141909
Oil Age	kms	Client Info		<b>0</b>	0	0
Filter Age	kms	Client Info		<b>0</b>	0	0
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)	>165	<b>9</b>	19	16
Chromium	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	1
Lead	ppm	ASTM D5185(m)	>150	<b>0</b>	3	2
Copper	ppm	ASTM D5185(m)	>90	<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**

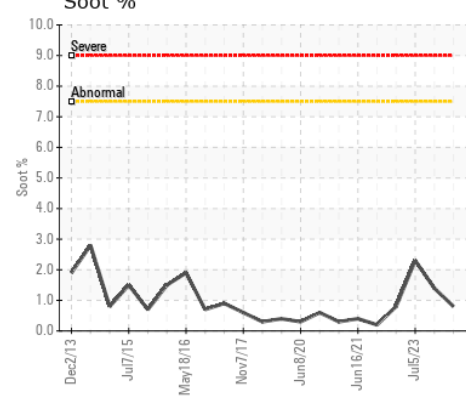
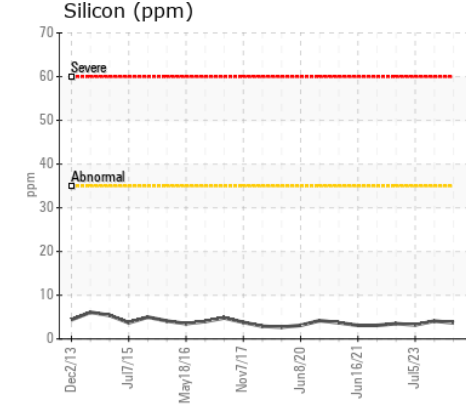
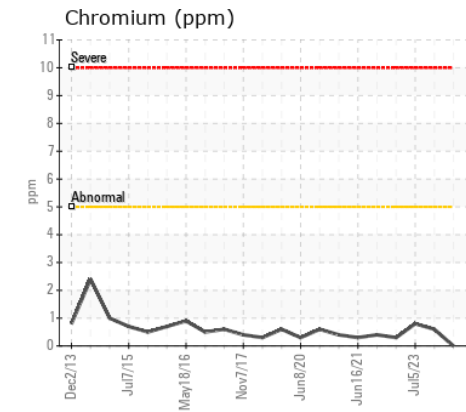
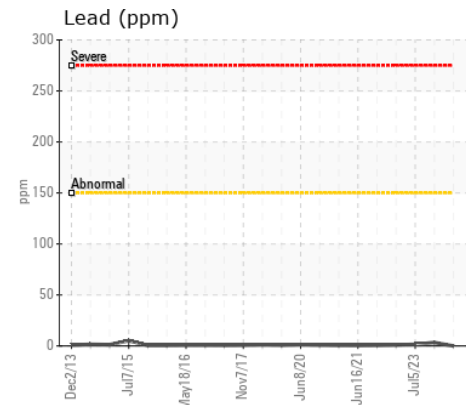
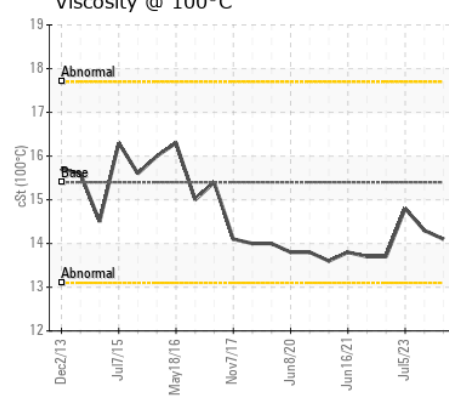
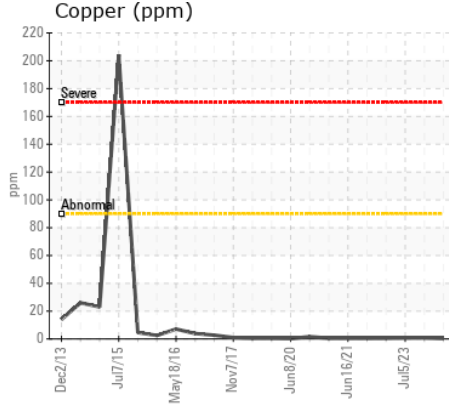
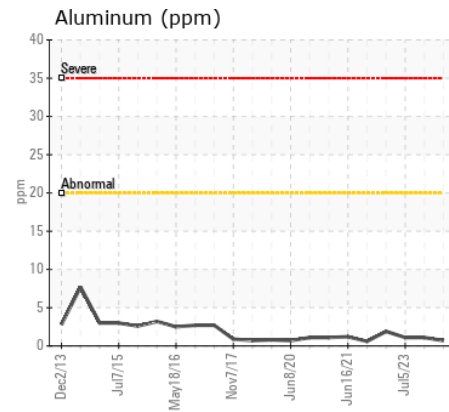
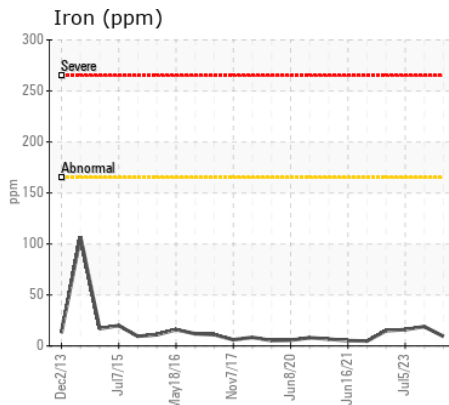
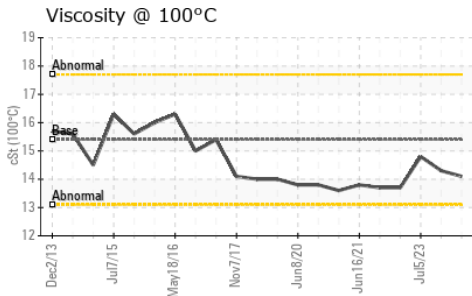
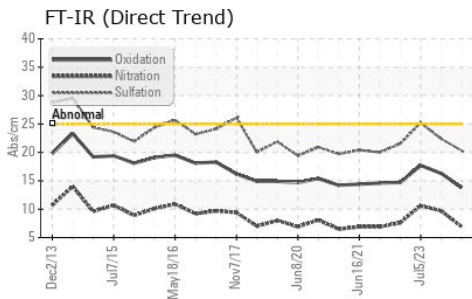
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	<b>4</b>	4	3
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	3	2
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>	0.0	NEG
Soot %	%	ASTM D7844*	>7.5	<b>0.8</b>	1.4	2.3
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.9</b>	9.7	10.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.3</b>	22.4	25.2
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>45</b>	103	21
Boron	ppm	ASTM D5185(m)	0	<b>4</b>	3	4
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>58</b>	64	59
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>919</b>	995	953
Calcium	ppm	ASTM D5185(m)	1070	<b>1020</b>	1091	1012
Phosphorus	ppm	ASTM D5185(m)	1150	<b>990</b>	1022	1030
Zinc	ppm	ASTM D5185(m)	1270	<b>1146</b>	1237	1166
Sulfur	ppm	ASTM D5185(m)	2060	<b>2476</b>	2535	2425
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.8</b>	16.3	17.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.1</b>	14.3	14.8



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0120080 **Received** : 16 May 2024  
**Lab Number** : 02635978 **Tested** : 16 May 2024  
**Unique Number** : 5785140 **Diagnosed** : 16 May 2024 - Wes Davis  
**Test Package** : MOB 1

**GFL Environmental - 225 - COT(D2)**  
 20 Brydon Drive  
 Etobicoke, ON  
 CA M9W 5R6  
 Contact: Rick Philip  
 rphilip@gflenv.com  
 T: (416)745-8080  
 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.