



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

Machine Id  
**7787**  
 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>GFL0107858</b>	GFL0097005	GFL0087436
Sample Date		Client Info		<b>02 Jan 2024</b>	08 Oct 2023	11 Jul 2023
Machine Age	kms	Client Info		<b>101159</b>	154882	94900
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**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>165	<b>12</b>	8	6
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	0	<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>2</b>	1	<1
Lead	ppm	ASTM D5185(m)	>150	<b>&lt;1</b>	<1	<1
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**

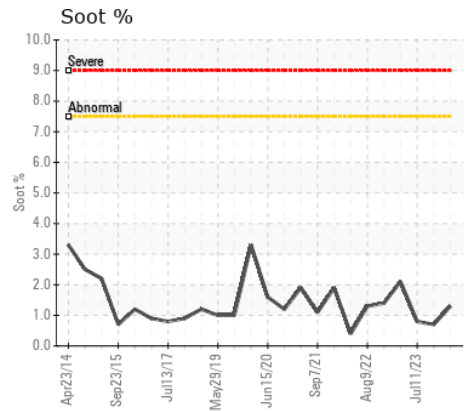
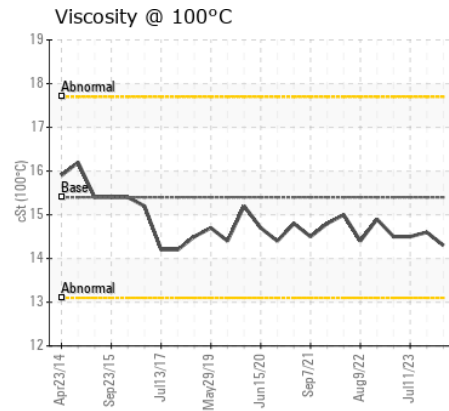
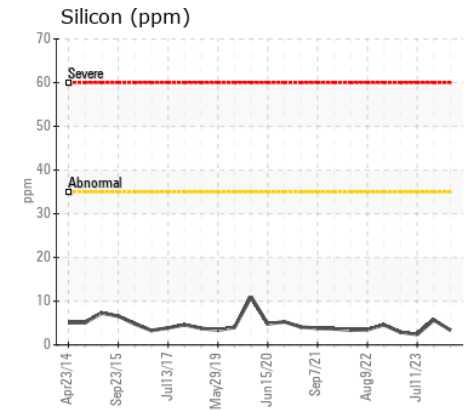
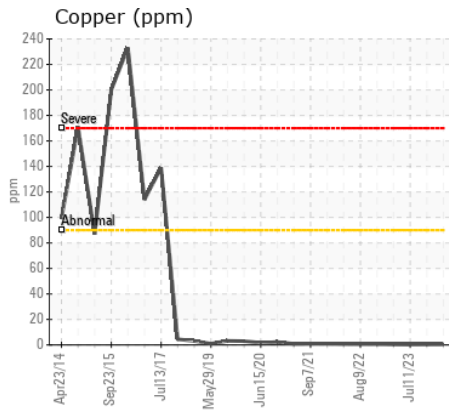
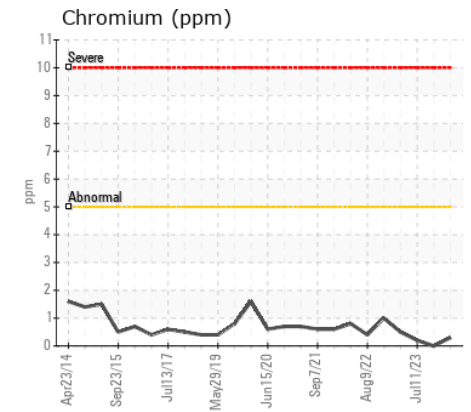
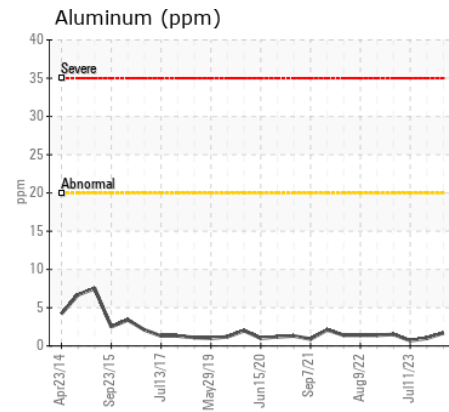
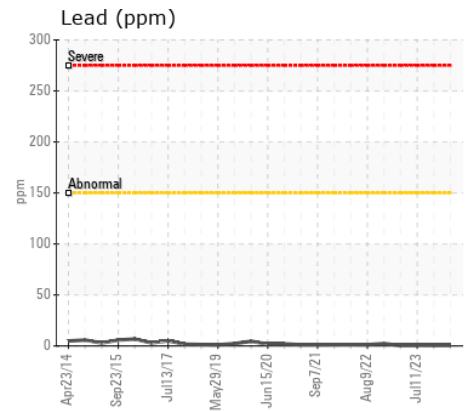
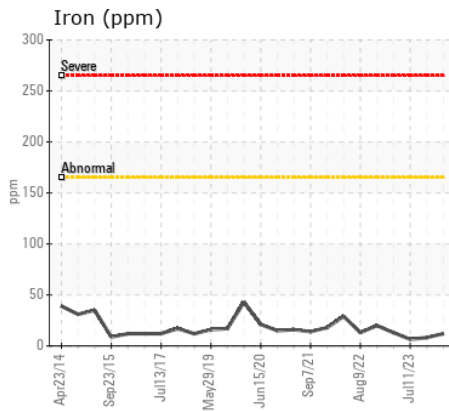
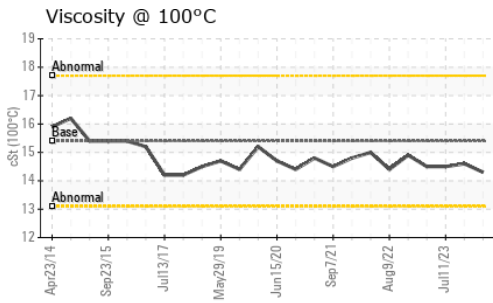
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	<b>3</b>	6	2
Potassium	ppm	ASTM D5185(m)	>20	<b>2</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*	>7.5	<b>1.3</b>	0.7	0.8
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.5</b>	6.2	6.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.4</b>	19.5	20.0
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>40</b>	29	22
Boron	ppm	ASTM D5185(m)	0	<b>2</b>	2	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>59</b>	59	58
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>954</b>	960	961
Calcium	ppm	ASTM D5185(m)	1070	<b>1055</b>	1059	1027
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1015</b>	1004	1050
Zinc	ppm	ASTM D5185(m)	1270	<b>1197</b>	1184	1163
Sulfur	ppm	ASTM D5185(m)	2060	<b>2752</b>	2571	2549
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.4</b>	13.1	13.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.3</b>	14.6	14.5



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 225 - COT(D2)**  
**Sample No.** : GFL0107858 **Received** : 08 Jan 2024 20 Brydon Drive  
**Lab Number** : 02606894 **Diagnosed** : 08 Jan 2024 Etobicoke, ON  
**Unique Number** : 5707980 **Diagnostician** : Wes Davis CA M9W 5R6  
**Test Package** : MOB 1

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.

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