



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

Machine Id  
**0535**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0102670</b>	GFL0093883	GFL0093898
Sample Date		Client Info		<b>23 Feb 2024</b>	22 Oct 2023	29 Sep 2023
Machine Age	kms	Client Info		<b>5415</b>	0	152162
Oil Age	kms	Client Info		<b>55</b>	0	0
Filter Age	kms	Client Info		<b>55</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	N/A	N/A
Filter Changed		Client Info		<b>Changed</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	ATTENTION

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	<b>17</b>	6	30
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	2
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	1	3
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	2
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	<1	2
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

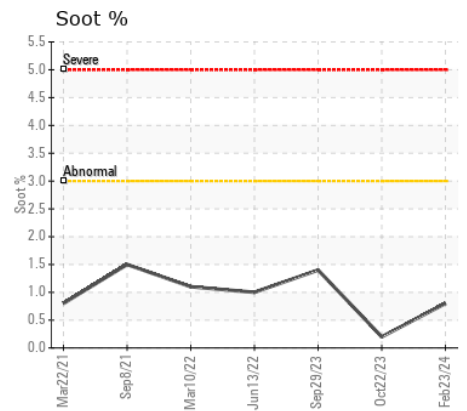
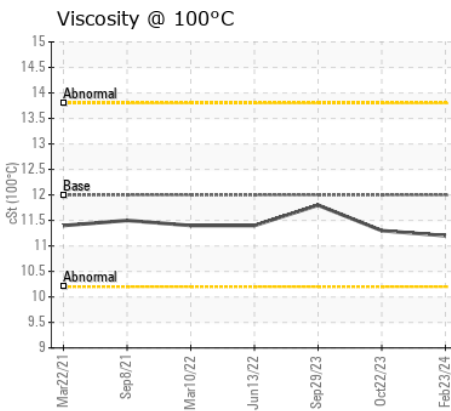
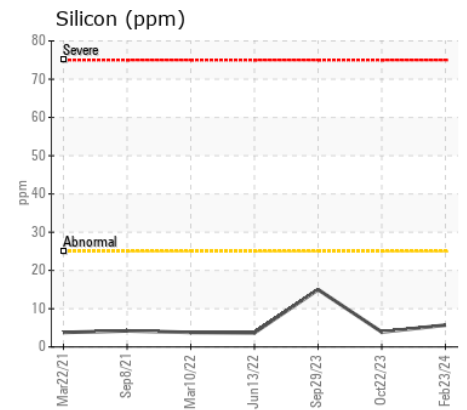
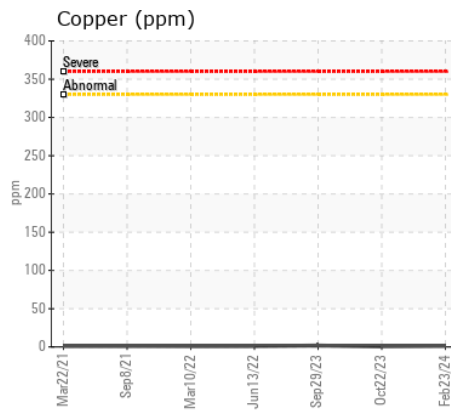
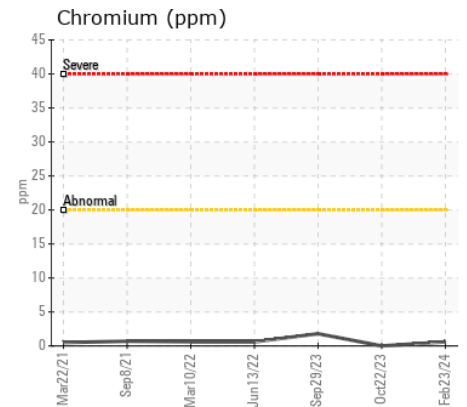
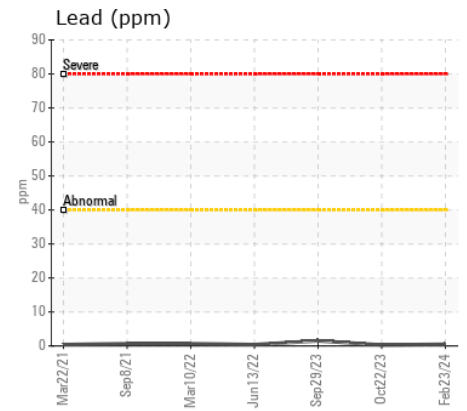
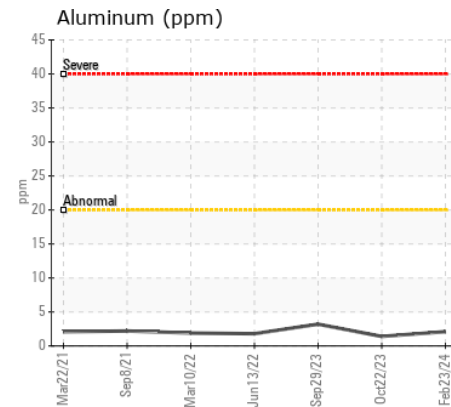
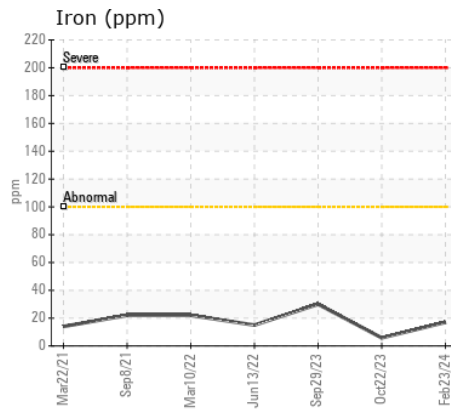
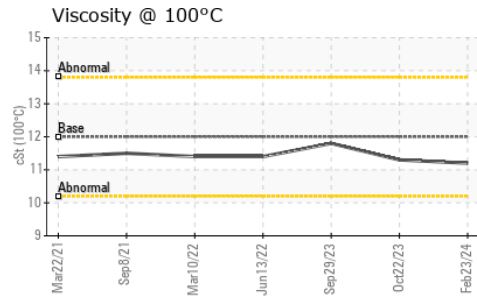
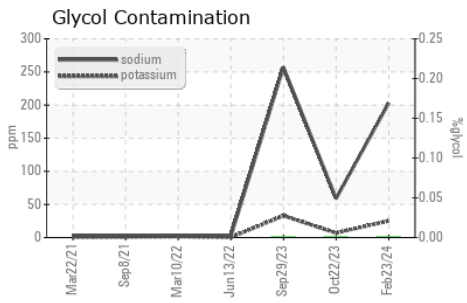
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>6</b>	4	15
Potassium	ppm	ASTM D5185(m)	>20	<b>25</b>	7	33
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	%	ASTM D7922*		<b>0.0</b>	0.0	0.0
Soot %	%	ASTM D7844*	>3	<b>0.8</b>	0.2	1.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.3</b>	4.9	8.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.9</b>	18.3	22.1
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
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>203</b>	59	257
Boron	ppm	ASTM D5185(m)	2	<b>4</b>	5	9
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	50	<b>64</b>	59	71
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	950	<b>930</b>	932	904
Calcium	ppm	ASTM D5185(m)	1050	<b>1032</b>	1006	1120
Phosphorus	ppm	ASTM D5185(m)	995	<b>984</b>	992	1020
Zinc	ppm	ASTM D5185(m)	1180	<b>1125</b>	1127	1167
Sulfur	ppm	ASTM D5185(m)	2600	<b>2627</b>	2512	2535
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.8</b>	13.6	15.5
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>11.2</b>	11.3	11.8



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0102670  
**Lab Number** : 02620087  
**Unique Number** : 5737197  
**Test Package** : MOB 1 ( Additional Tests: Glycol, Visual )

**GFL Environmental - 554 - Edmonton SW**  
 8409 -15th Street NW  
 Edmonton, AB  
 CA T6P 0B8  
 Contact: Tim Greig  
 tgreig@gflenv.com  
 T: (780)231-0521  
 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.