



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



Machine Id  
**819023**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0107333</b>	GFL0107311	GFL0079257
Sample Date		Client Info		<b>01 Apr 2024</b>	14 Dec 2023	06 Nov 2023
Machine Age	hrs	Client Info		<b>600</b>	1436	600
Oil Age	hrs	Client Info		<b>600</b>	600	600
Filter Age	hrs	Client Info		<b>600</b>	600	600
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</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)	>80	<b>30</b>	35	143
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	3
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	1
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)	>30	<b>4</b>	4	15
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	2	14
Copper	ppm	ASTM D5185(m)	>150	<b>22</b>	85	584
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	2
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

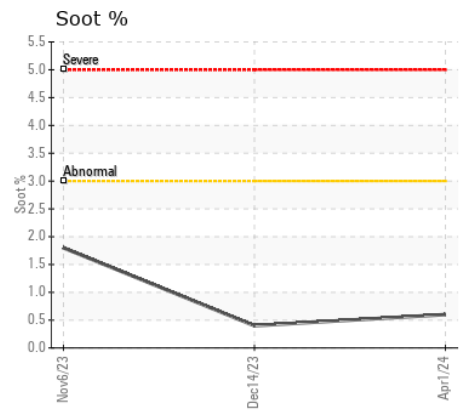
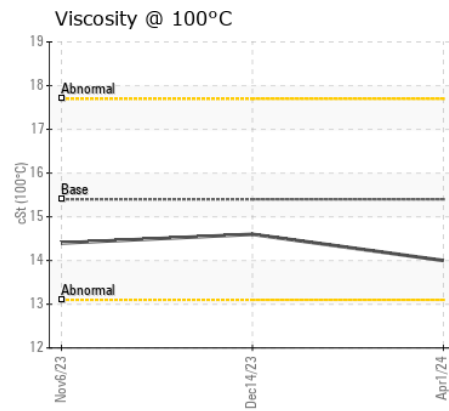
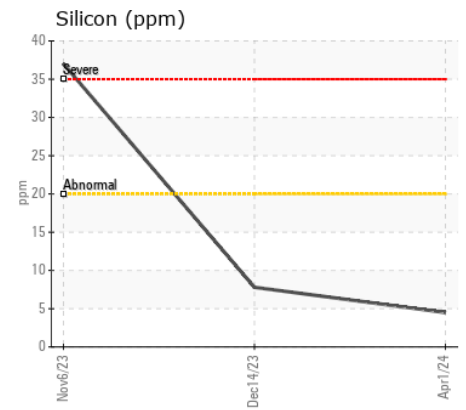
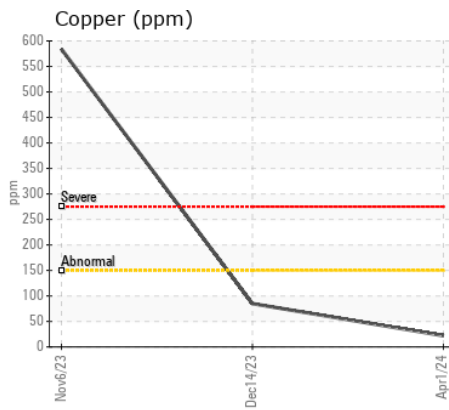
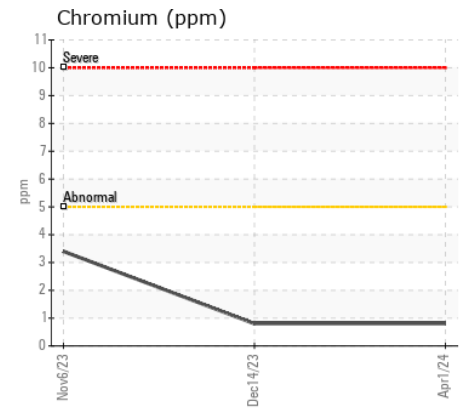
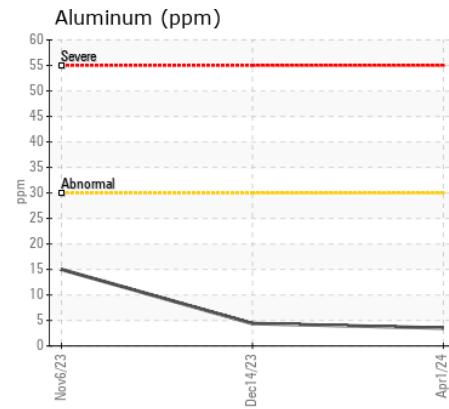
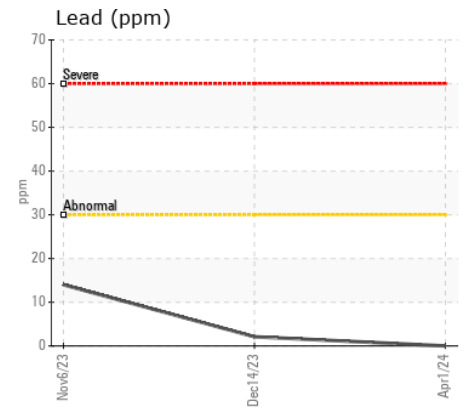
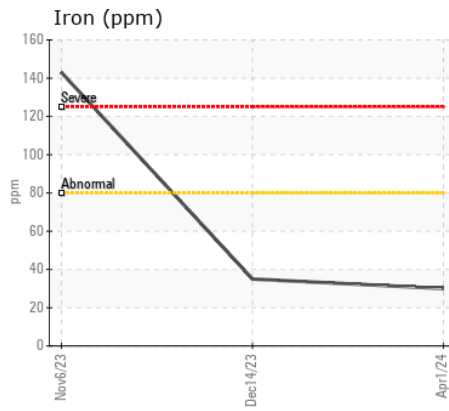
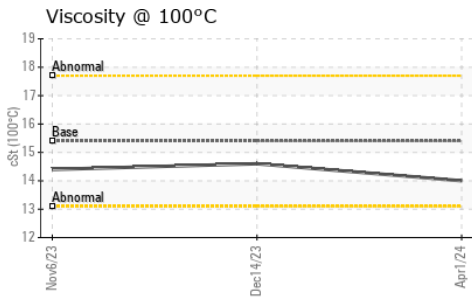
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>4</b>	8	37
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	4	22
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>0.6</b>	0.4	1.8
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.7</b>	7.5	13.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.2</b>	20.4	29.9
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>6</b>	5	7
Boron	ppm	ASTM D5185(m)	0	<b>2</b>	6	38
Barium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	7
Molybdenum	ppm	ASTM D5185(m)	60	<b>61</b>	67	112
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	6
Magnesium	ppm	ASTM D5185(m)	1010	<b>963</b>	928	701
Calcium	ppm	ASTM D5185(m)	1070	<b>1062</b>	1133	1575
Phosphorus	ppm	ASTM D5185(m)	1150	<b>924</b>	946	730
Zinc	ppm	ASTM D5185(m)	1270	<b>1162</b>	1130	913
Sulfur	ppm	ASTM D5185(m)	2060	<b>2085</b>	2377	1694
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.7</b>	16.0	27.1
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.0</b>	14.6	14.4



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0107333  
**Lab Number** : 02626309  
**Unique Number** : 5759441  
**Test Package** : MOB 1

**GFL Environmental - 250 - Sault Ste Marie Hauling + MRF**  
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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.