



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

Machine Id  
**811057**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0099549</b>	GFL0099596	GFL0099584
Sample Date		Client Info		<b>08 Jan 2024</b>	18 Dec 2023	06 Dec 2023
Machine Age	hrs	Client Info		<b>856</b>	731	66308
Oil Age	hrs	Client Info		<b>236</b>	111	0
Filter Age	hrs	Client Info		<b>236</b>	111	0
Oil Changed		Client Info		<b>Changed</b>	N/A	Not Changd
Filter Changed		Client Info		<b>Changed</b>	N/A	Not Changd
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	<b>20</b>	14	8
Chromium	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>3</b>	3	2
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	1	<1
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

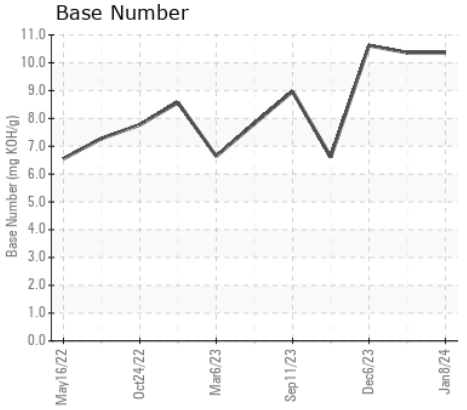
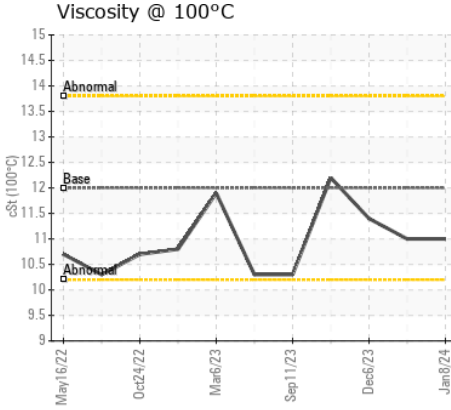
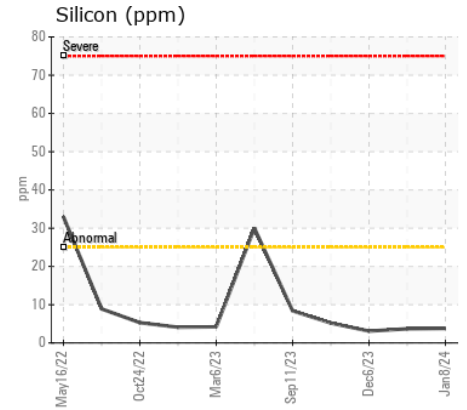
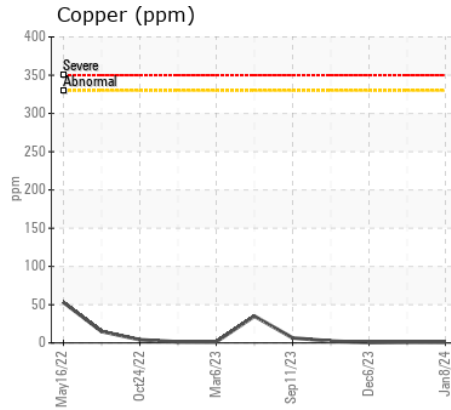
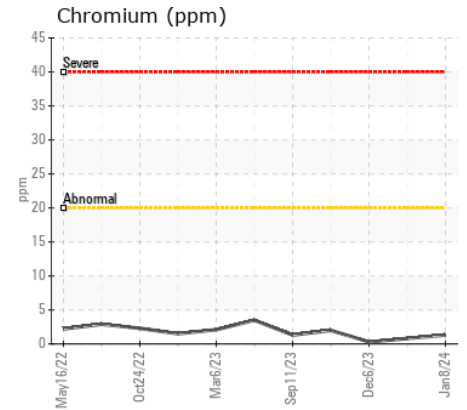
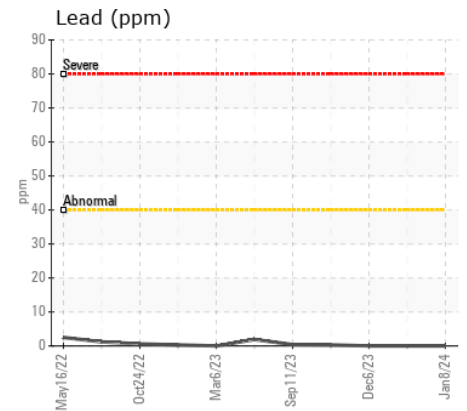
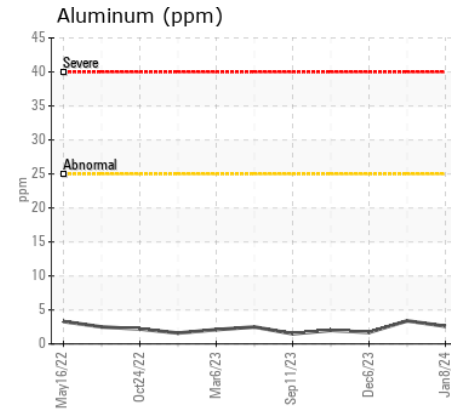
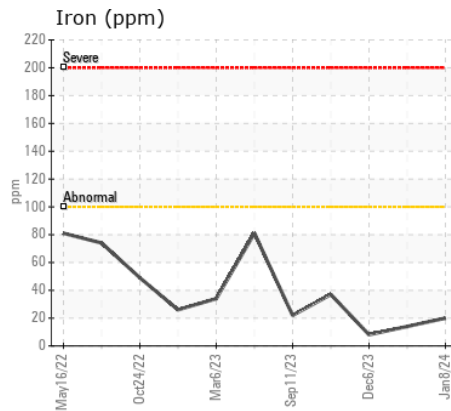
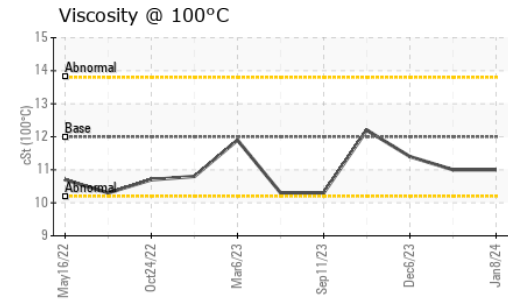
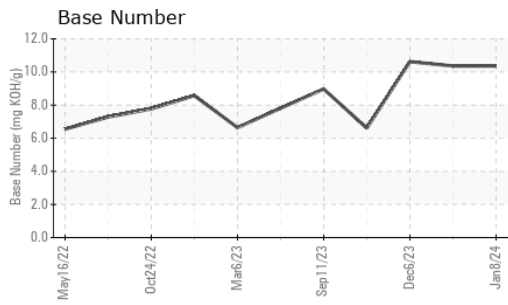
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	4	3
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	2	0
Fuel		WC Method	>5	<b>&lt;1.0</b>	▲ 3.3	1.6
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0.2</b>	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.8</b>	6.5	5.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.6</b>	19.0	18.5
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		<b>1</b>	1	1
Boron	ppm	ASTM D5185(m)	2	<b>1</b>	2	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	50	<b>57</b>	58	59
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	950	<b>937</b>	943	950
Calcium	ppm	ASTM D5185(m)	1050	<b>1027</b>	1031	1012
Phosphorus	ppm	ASTM D5185(m)	995	<b>995</b>	998	984
Zinc	ppm	ASTM D5185(m)	1180	<b>1151</b>	1149	1168
Sulfur	ppm	ASTM D5185(m)	2600	<b>2616</b>	2648	2570
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.3</b>	15.4	14.6
Base Number (BN)	mg KOH/g	ASTM D2896*		<b>10.36</b>	10.36	10.62
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>11.0</b>	▲ 11.0	▲ 11.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County  
**Sample No.** : GFL0099549 **Received** : 16 Jan 2024  
**Lab Number** : 02608853 **Diagnosed** : 16 Jan 2024  
**Unique Number** : 5709939 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2

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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