



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

Machine Id  
**429052-402457**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SHP 15W40 (--- LTR)**

**RECOMMENDATION**

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0103506</b>	GFL0094778	GFL0094796
Sample Date		Client Info		<b>03 Jan 2024</b>	14 Dec 2023	21 Nov 2023
Machine Age	hrs	Client Info		<b>11691</b>	11567	11436
Oil Age	hrs	Client Info		<b>517</b>	393	262
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Not Changd	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

**WEAR**

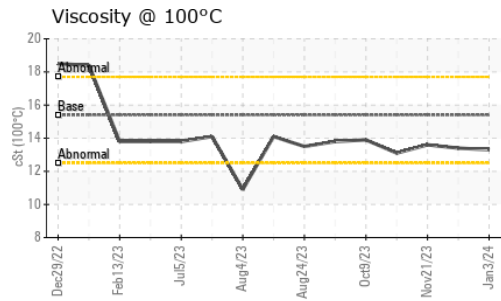
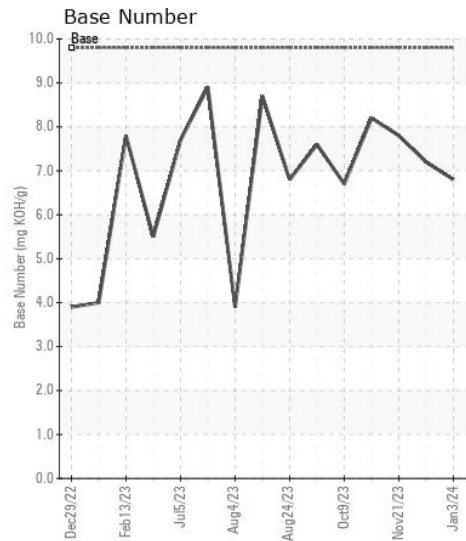
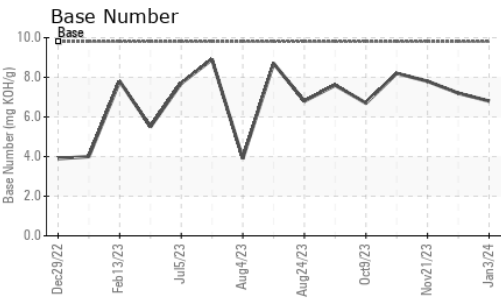
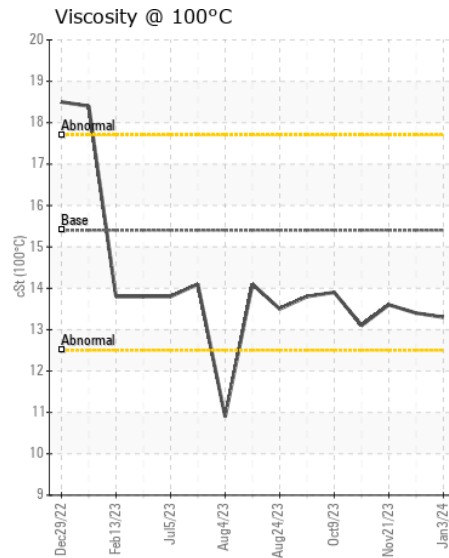
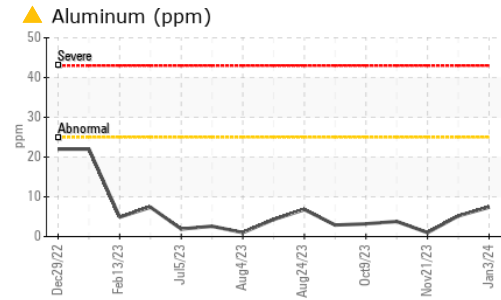
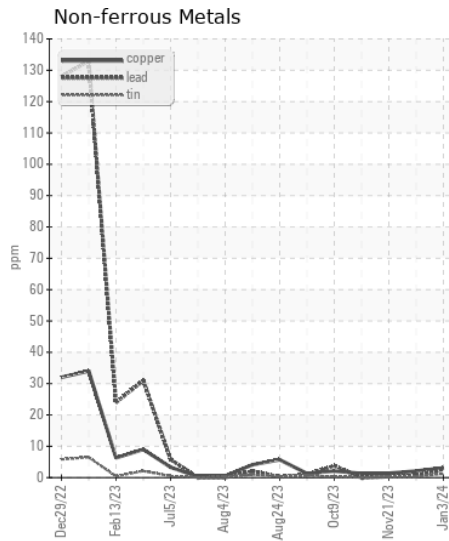
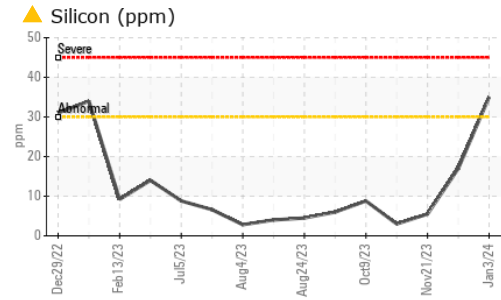
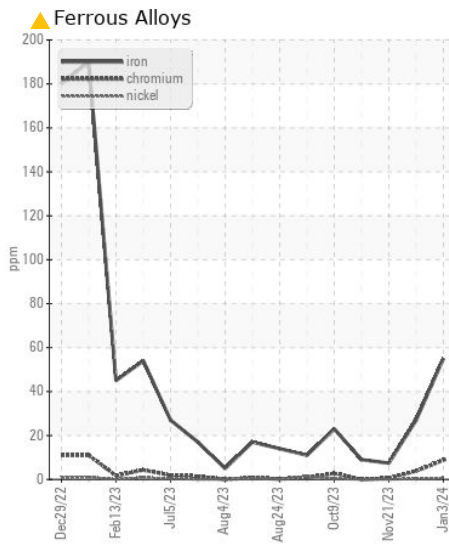
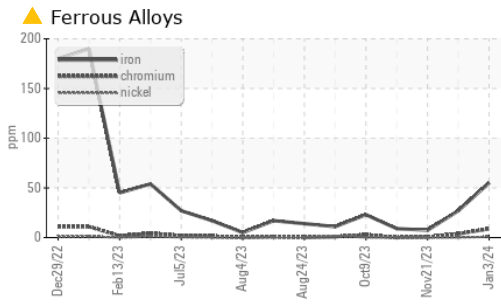
Iron	ppm	ASTM D5185m	>110	<b>55</b>	27	7
Chromium	ppm	ASTM D5185m	>4	<b>▲ 9</b>	4	<1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>1</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>▲ 7</b>	5	1
Lead	ppm	ASTM D5185m	>45	<b>3</b>	<1	<1
Copper	ppm	ASTM D5185m	>85	<b>3</b>	2	1
Tin	ppm	ASTM D5185m	>4	<b>1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

Silicon	ppm	ASTM D5185m	>30	<b>▲ 35</b>	17	6
Potassium	ppm	ASTM D5185m	>20	<b>13</b>	11	9
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>0.4</b>	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.4</b>	9.3	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.7</b>	20.8	19.8
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

Sodium	ppm	ASTM D5185m		<b>2</b>	4	4
Boron	ppm	ASTM D5185m	0	<b>11</b>	11	13
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>95</b>	87	87
Manganese	ppm	ASTM D5185m	0	<b>1</b>	<1	0
Magnesium	ppm	ASTM D5185m	1010	<b>981</b>	904	935
Calcium	ppm	ASTM D5185m	1070	<b>1145</b>	1075	1137
Phosphorus	ppm	ASTM D5185m	1150	<b>908</b>	1041	1070
Zinc	ppm	ASTM D5185m	1270	<b>1304</b>	1218	1243
Sulfur	ppm	ASTM D5185m	2060	<b>2789</b>	3411	3063
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.9</b>	17.3	16.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>6.8</b>	7.2	7.8
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.3</b>	13.4	13.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0103506 **Received** : 09 Jan 2024  
**Lab Number** : 06055143 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 10821092 **Diagnostician** : Jonathan Hester  
**Test Package** : FLEET

**GFL environmental - 867 - Trafford (Blount Hauling)**  
 1130 County Line Rd  
 Trafford, AL  
 US 35172  
 Contact: Jonathan Williams  
 jonathan.williams@gflenv.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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F: