



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

Machine Id  
**913148**

Component  
**Diesel Engine**

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

**RECOMMENDATION**

Resample at the next service interval to monitor. ( Customer Sample Comment: resample )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0103524</b>	GFL0103518	GFL0103499
Sample Date		Client Info		<b>25 Jan 2024</b>	15 Jan 2024	26 Dec 2023
Machine Age	hrs	Client Info		<b>2746</b>	2665	2505
Oil Age	hrs	Client Info		<b>548</b>	467	307
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	<b>22</b>	16	4
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>14</b>	5	4
Lead	ppm	ASTM D5185m	>45	<b>0</b>	1	<1
Copper	ppm	ASTM D5185m	>85	<b>5</b>	20	<1
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

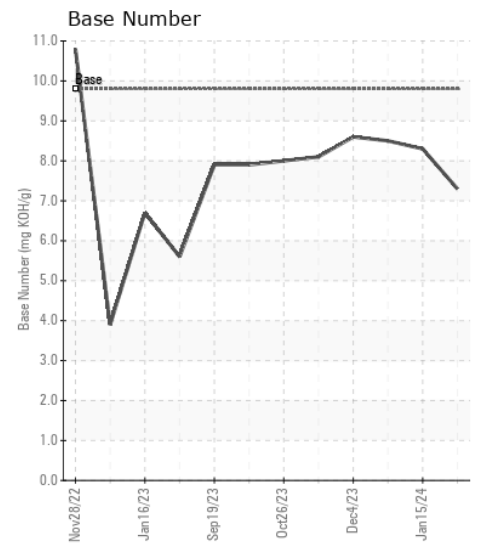
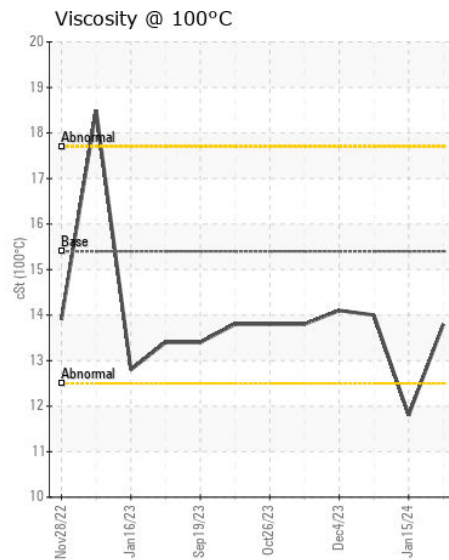
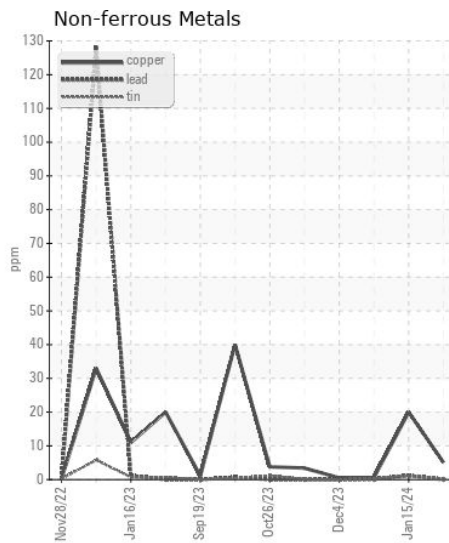
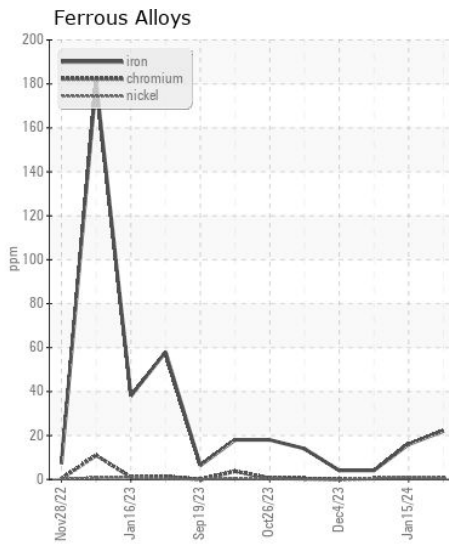
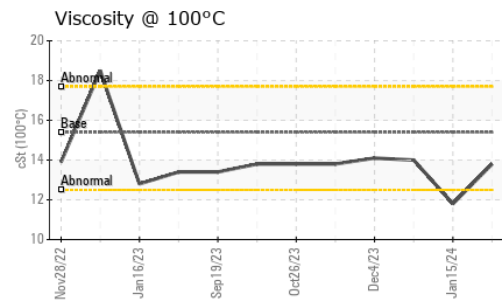
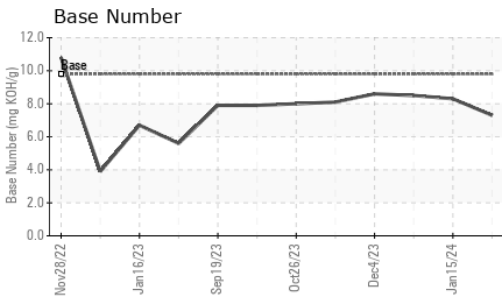
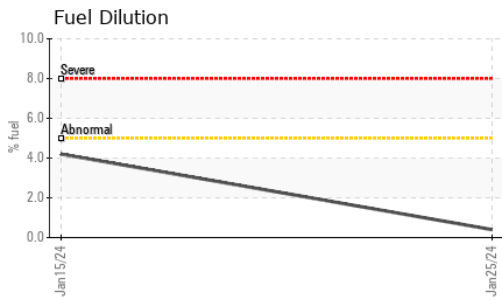
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>15</b>	5	3
Potassium	ppm	ASTM D5185m	>20	<b>25</b>	12	12
Fuel	%	ASTM D3524	>5	<b>0.4</b>	▲ 4.2	<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	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.2</b>	6.0	6.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.2</b>	17.9	18.5
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**

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 D5185m		<b>1</b>	0	1
Boron	ppm	ASTM D5185m	0	<b>17</b>	20	20
Barium	ppm	ASTM D5185m	0	<b>0</b>	1	0
Molybdenum	ppm	ASTM D5185m	60	<b>82</b>	91	86
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185m	1010	<b>817</b>	906	908
Calcium	ppm	ASTM D5185m	1070	<b>1083</b>	980	1002
Phosphorus	ppm	ASTM D5185m	1150	<b>900</b>	823	1039
Zinc	ppm	ASTM D5185m	1270	<b>1123</b>	1171	1234
Sulfur	ppm	ASTM D5185m	2060	<b>2701</b>	2688	3103
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.6</b>	13.2	14.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>7.3</b>	8.3	8.5
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.8</b>	▲ 11.8	14.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0103524 **Received** : 30 Jan 2024  
**Lab Number** : 06074306 **Diagnosed** : 02 Feb 2024  
**Unique Number** : 10856397 **Diagnostician** : Jonathan Hester  
**Test Package** : FLEET ( Additional Tests: FUELDILUTION, PercentFuel )

**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: