



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

Area  
**(TB7091)**  
Machine Id  
**810033**  
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>GFL0092534</b>	GFL0100401	GFL0092518
Sample Date		Client Info		<b>15 Feb 2024</b>	04 Dec 2023	18 Aug 2023
Machine Age	hrs	Client Info		<b>5451</b>	5060	4456
Oil Age	hrs	Client Info		<b>391</b>	604	610
Filter Age	hrs	Client Info		<b>391</b>	604	610
Oil Changed		Client Info		<b>Changed</b>	Not Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>40</b>	44	27
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	1	1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>12</b>	9	7
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>330	<b>2</b>	2	2
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

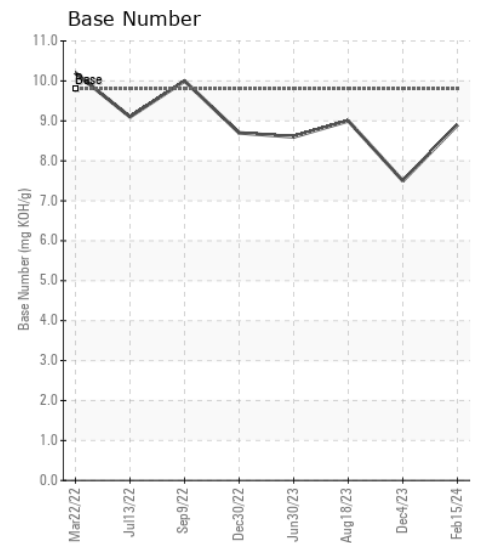
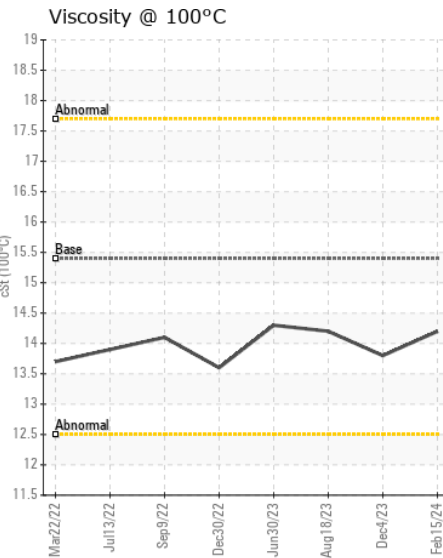
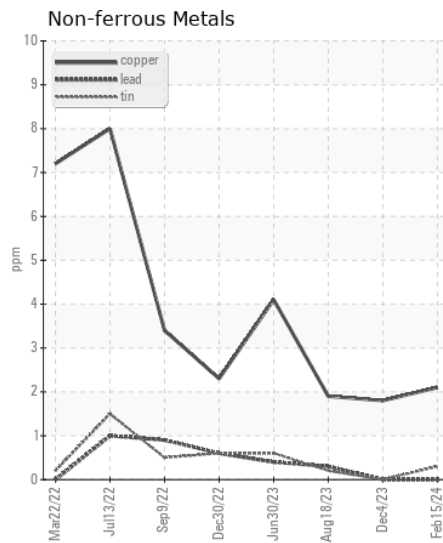
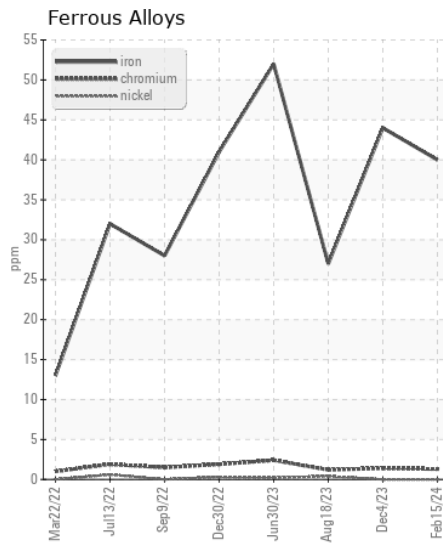
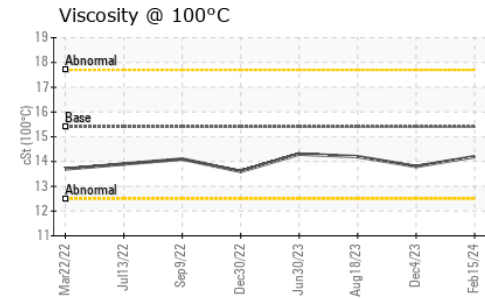
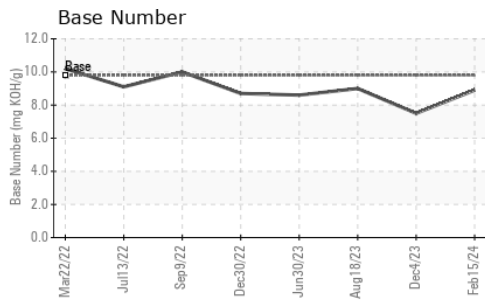
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	7	6
Potassium	ppm	ASTM D5185m	>20	<b>12</b>	10	11
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>1.2</b>	1.4	0.9
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.9</b>	9.9	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.4</b>	21.8	20.0
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>5</b>	8	5
Boron	ppm	ASTM D5185m	0	<b>4</b>	0	<1
Barium	ppm	ASTM D5185m	0	<b>1</b>	0	3
Molybdenum	ppm	ASTM D5185m	60	<b>60</b>	64	59
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	1010	<b>979</b>	1015	927
Calcium	ppm	ASTM D5185m	1070	<b>1037</b>	1100	1023
Phosphorus	ppm	ASTM D5185m	1150	<b>1030</b>	1009	987
Zinc	ppm	ASTM D5185m	1270	<b>1280</b>	1304	1158
Sulfur	ppm	ASTM D5185m	2060	<b>2907</b>	2895	2770
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.6</b>	18.0	15.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.9</b>	7.5	9.0
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.2</b>	13.8	14.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0092534  
**Lab Number** : 06097563  
**Unique Number** : 10890416  
**Test Package** : FLEET

**Received** : 22 Feb 2024  
**Tested** : 23 Feb 2024  
**Diagnosed** : 23 Feb 2024 - Wes Davis

**GFL Environmental - 935 - Omro HC**  
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 F:

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)