



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



Machine Id  
**10100**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (7 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0109868</b>	GFL0083199	GFL0076725
Sample Date		Client Info		<b>11 Jan 2024</b>	20 Jun 2023	03 Apr 2023
Machine Age	hrs	Client Info		<b>11987</b>	11226	11104
Oil Age	hrs	Client Info		<b>182</b>	558	151
Filter Age	hrs	Client Info		<b>182</b>	558	151
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	<b>35</b>	91	59
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	4	3
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	2	1
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	11	7
Lead	ppm	ASTM D5185m	>40	<b>0</b>	3	2
Copper	ppm	ASTM D5185m	>330	<b>1</b>	5	1
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

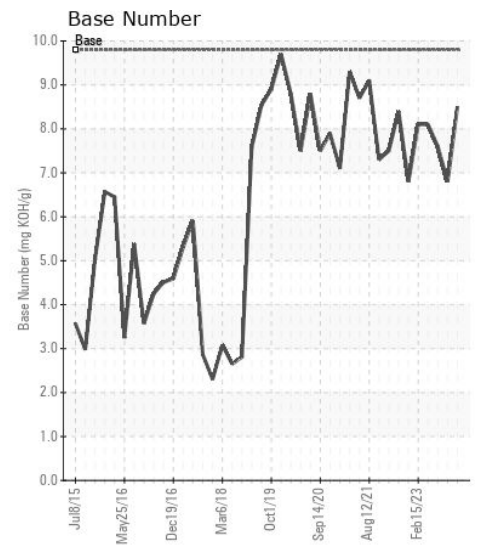
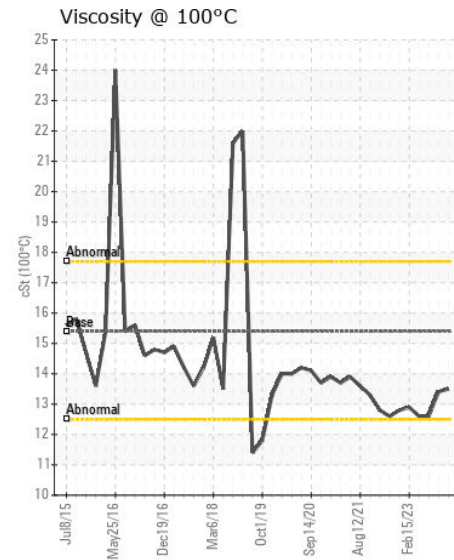
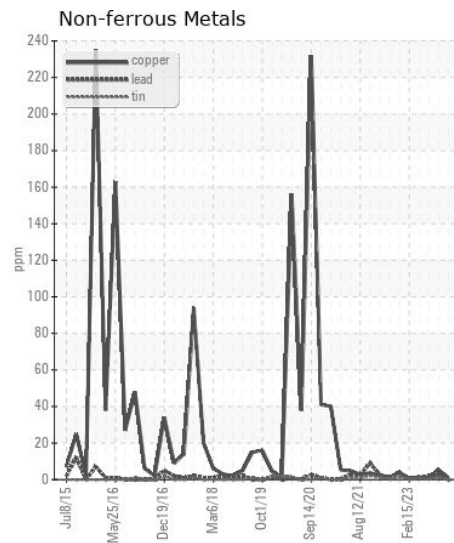
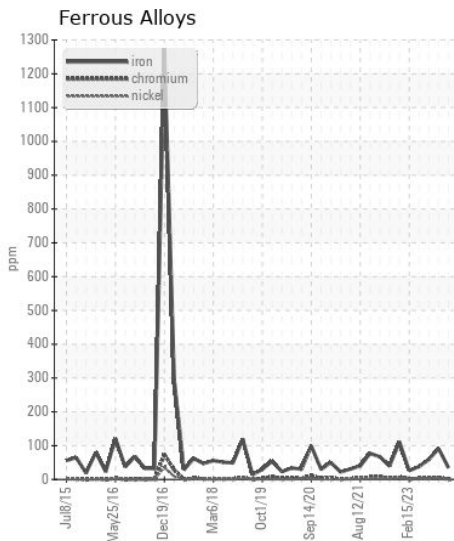
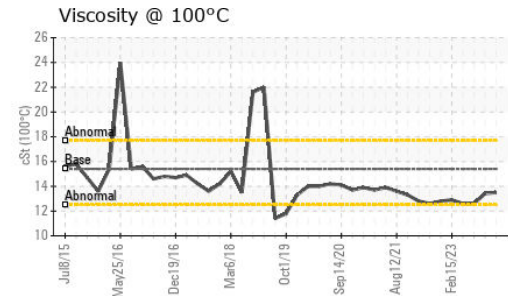
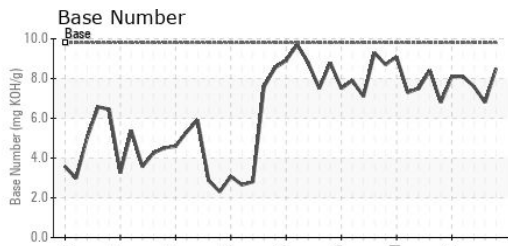
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>8</b>	25	20
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	4	1
Fuel		WC Method	>3.0	<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	>6	<b>1.7</b>	2.9	1.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.1</b>	12.5	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.4</b>	25.7	20.8
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**

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>3</b>	21	13
Boron	ppm	ASTM D5185m	0	<b>3</b>	16	18
Barium	ppm	ASTM D5185m	0	<b>3</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>56</b>	62	65
Manganese	ppm	ASTM D5185m	0	<b>0</b>	1	<1
Magnesium	ppm	ASTM D5185m	1010	<b>842</b>	715	678
Calcium	ppm	ASTM D5185m	1070	<b>968</b>	1103	1052
Phosphorus	ppm	ASTM D5185m	1150	<b>904</b>	899	857
Zinc	ppm	ASTM D5185m	1270	<b>1109</b>	1144	1104
Sulfur	ppm	ASTM D5185m	2060	<b>3032</b>	3224	2915
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.5</b>	18.5	16.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.5</b>	6.8	7.6
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.5</b>	13.41	12.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0109868 **Received** : 18 Jan 2024  
**Lab Number** : 06064080 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10835462 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 010 - Stockbridge**  
 1280 Rum Creek Parkway  
 Stockbridge, GA  
 US 30281  
 Contact: JOSHUA TINKER  
 joshuatinker@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: