



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

Area  
**(WEL942)**  
Machine Id  
**11252**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (16 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0111546</b>	GFL0083139	GFL0083143
Sample Date		Client Info		<b>12 Feb 2024</b>	30 Oct 2023	25 Sep 2023
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>52</b>	16	29
Chromium	ppm	ASTM D5185m	>20	<b>4</b>	<1	1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>5</b>	3	5
Lead	ppm	ASTM D5185m	>40	<b>4</b>	<1	<1
Copper	ppm	ASTM D5185m	>330	<b>68</b>	1	15
Tin	ppm	ASTM D5185m	>15	<b>2</b>	0	2
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

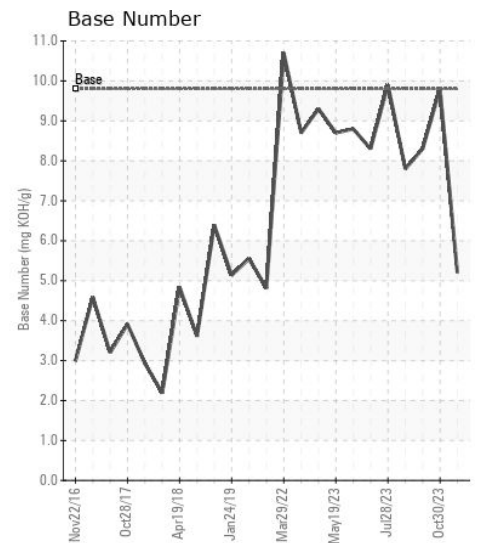
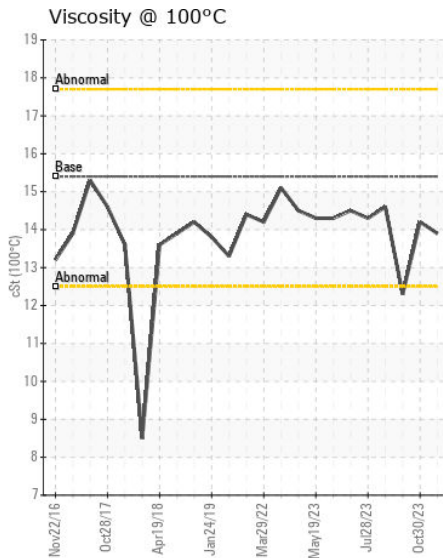
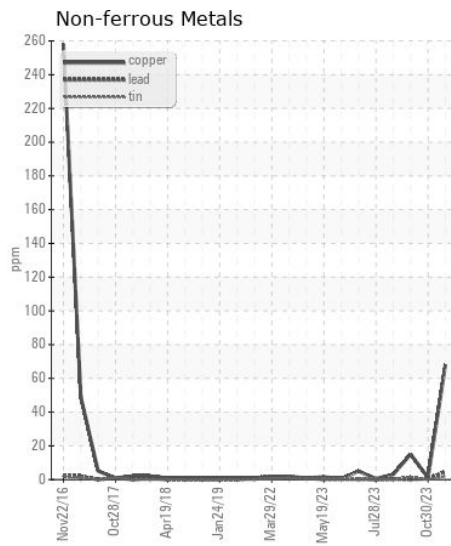
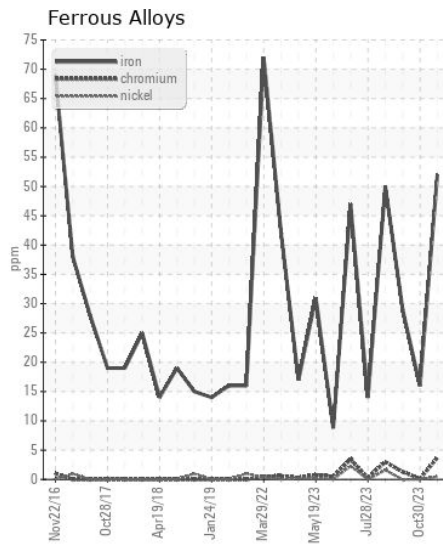
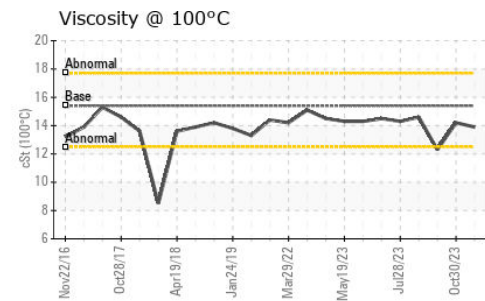
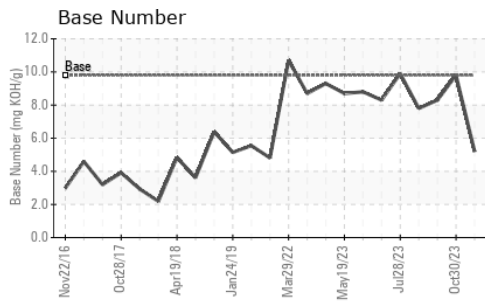
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>17</b>	7	8
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	2	8
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	0.3
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>1.3</b>	1.2	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.3</b>	8.8	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.6</b>	20.8	19.7
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>2</b>	0	5
Boron	ppm	ASTM D5185m	0	<b>15</b>	1	1
Barium	ppm	ASTM D5185m	0	<b>2</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>68</b>	65	70
Manganese	ppm	ASTM D5185m	0	<b>2</b>	0	2
Magnesium	ppm	ASTM D5185m	1010	<b>823</b>	940	959
Calcium	ppm	ASTM D5185m	1070	<b>1404</b>	1068	1295
Phosphorus	ppm	ASTM D5185m	1150	<b>886</b>	1018	1072
Zinc	ppm	ASTM D5185m	1270	<b>1148</b>	1238	1359
Sulfur	ppm	ASTM D5185m	2060	<b>2437</b>	3535	2515
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>22.0</b>	16.1	15.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>5.2</b>	9.8	8.3
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.9</b>	14.2	12.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0111546  
**Lab Number** : 06124772  
**Unique Number** : 10938923  
**Test Package** : FLEET

**Received** : 21 Mar 2024  
**Tested** : 22 Mar 2024  
**Diagnosed** : 22 Mar 2024 - Wes Davis

**GFL Environmental - 074 - Douglas - Transwaste**  
 1219 Landfill Road  
 Douglas, GA  
 US 31533

Contact: CURTIS JACOBS  
 CURTIS.JACOBS@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)

T: (912)384-6001

F: