



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

Area  
**(P638403)**  
Machine Id  
**10811**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (11 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor. ( Customer Sample Comment: Oil was changed but sample was not pulled at time of service so we had to pull a new sampleple )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0096942</b>	GFL0050906	GFL0069761
Sample Date		Client Info		<b>29 Jan 2024</b>	20 Oct 2023	31 Jul 2023
Machine Age	hrs	Client Info		<b>15119</b>	14426	13784
Oil Age	hrs	Client Info		<b>693</b>	642	13784
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	<b>&lt;1</b>	12	11
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	<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	>15	<b>1</b>	2	<1
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>100	<b>0</b>	1	1
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	0
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**

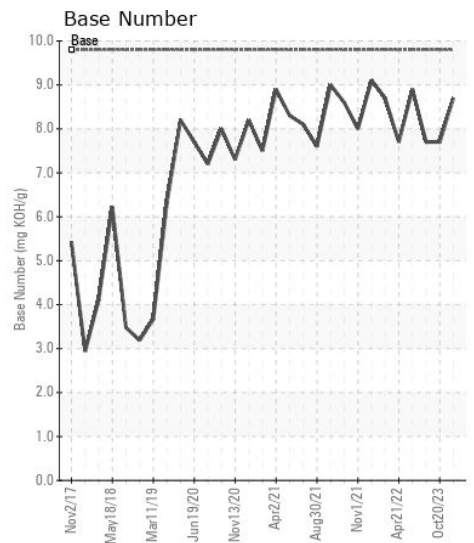
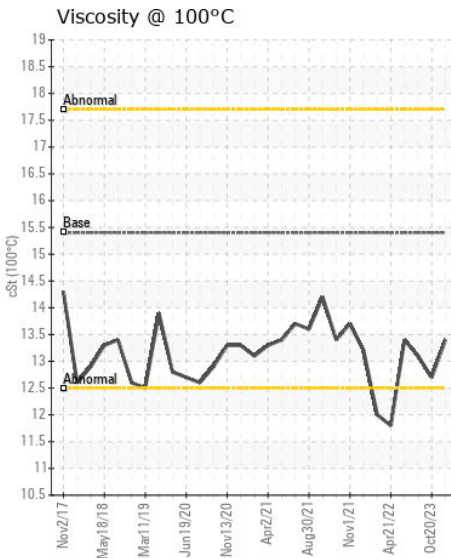
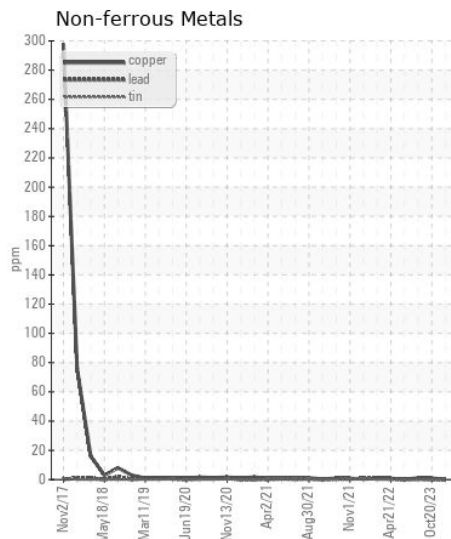
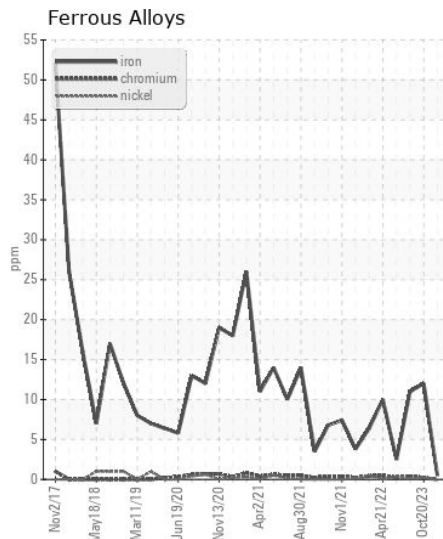
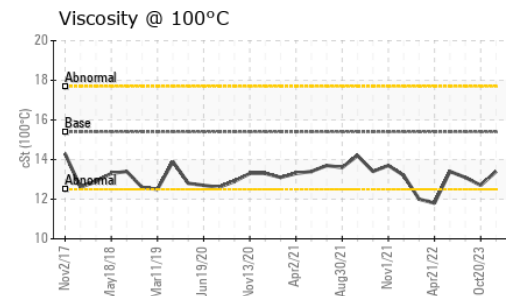
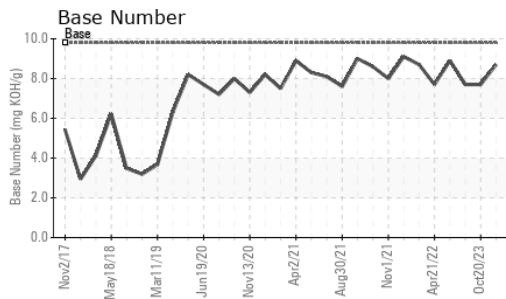
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>2</b>	5	4
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	<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>0.1</b>	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.0</b>	8.0	8.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>17.2</b>	18.3	18.9
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>&lt;1</b>	<1	5
Boron	ppm	ASTM D5185m	0	<b>10</b>	13	13
Barium	ppm	ASTM D5185m	0	<b>&lt;1</b>	4	0
Molybdenum	ppm	ASTM D5185m	60	<b>56</b>	66	64
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	1010	<b>844</b>	798	802
Calcium	ppm	ASTM D5185m	1070	<b>950</b>	1142	1211
Phosphorus	ppm	ASTM D5185m	1150	<b>983</b>	929	914
Zinc	ppm	ASTM D5185m	1270	<b>1129</b>	1160	1124
Sulfur	ppm	ASTM D5185m	2060	<b>2852</b>	3153	3105
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>12.7</b>	14.4	15.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.7</b>	7.7	7.7
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.4</b>	12.7	13.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0096942 **Received** : 01 Feb 2024  
**Lab Number** : 06076593 **Diagnosed** : 02 Feb 2024  
**Unique Number** : 10858684 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

**GFL Environmental - 031 - Greenville/Spartanburg**  
 1635 Antioch Church Rd  
 Piedmont, SC  
 US 29673  
 Contact: TECHNICIAN ACCOUNT  
 catherine.anastasio@wearcheck.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:  
F: