



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



Area  
**(62A1N76) TALLASSEE**  
Machine Id  
**924017-142594**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (--- LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0088609</b>	GFL0092431	GFL0079715
Sample Date		Client Info		<b>20 May 2024</b>	03 Apr 2024	08 Nov 2023
Machine Age	hrs	Client Info		<b>1158</b>	1082	722
Oil Age	hrs	Client Info		<b>1158</b>	1082	722
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	N/A
Filter Changed		Client Info		<b>N/A</b>	Not Changd	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>120	<b>12</b>	4	7
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	1
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	<1	2
Lead	ppm	ASTM D5185m	>40	<b>1</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>58</b>	7	1
Tin	ppm	ASTM D5185m	>15	<b>4</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**

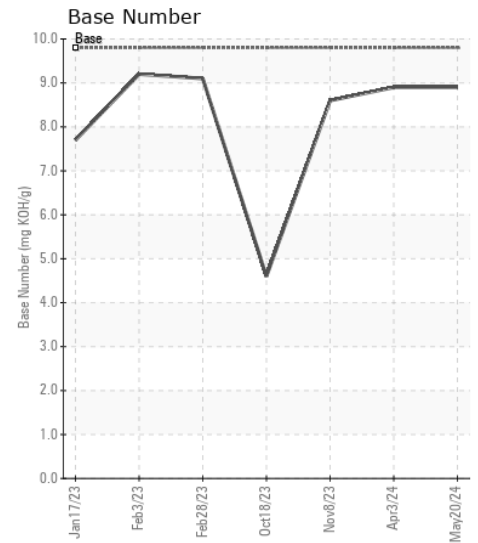
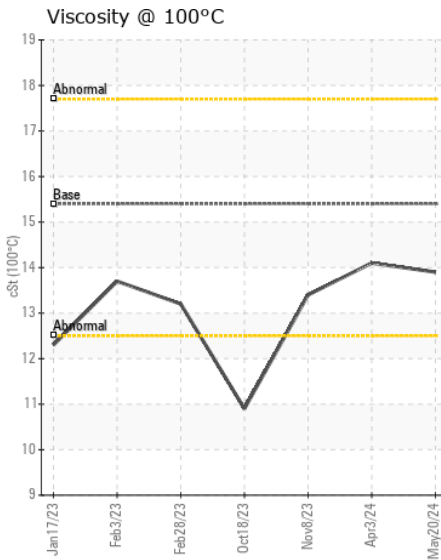
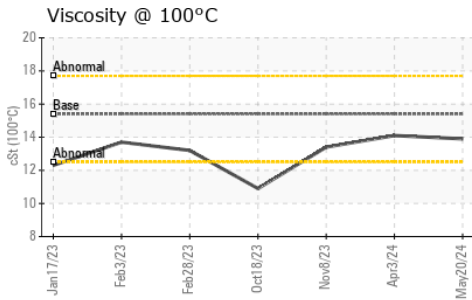
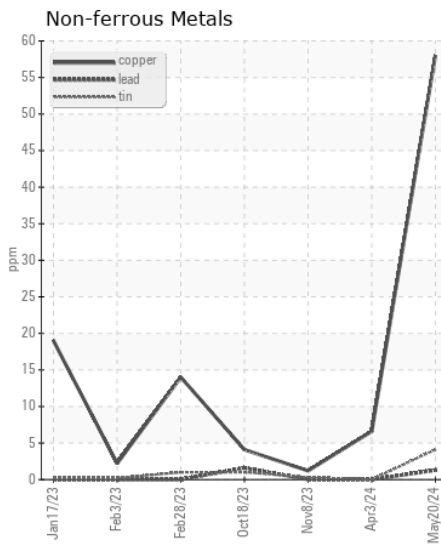
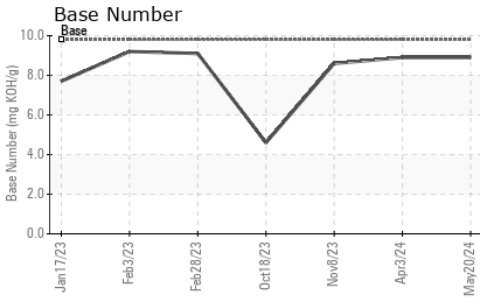
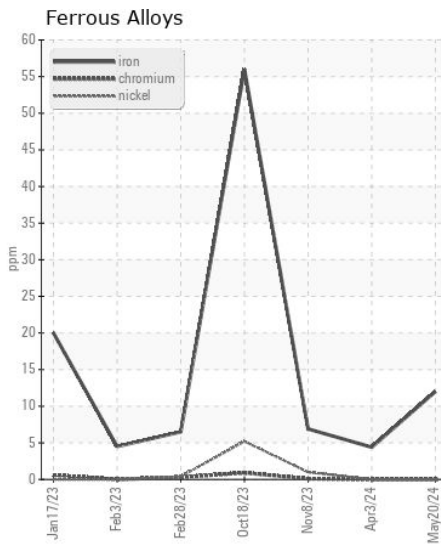
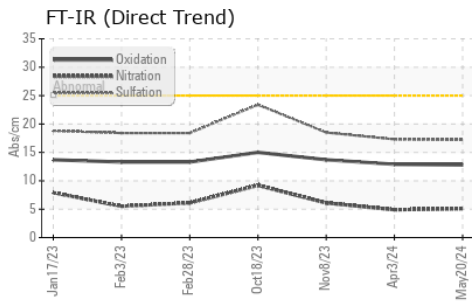
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>11</b>	4	4
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	0	<1
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	2.2
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>4	<b>0.2</b>	0.1	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.1</b>	4.9	6.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>17.2</b>	17.3	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>6</b>	1	2
Boron	ppm	ASTM D5185m	0	<b>14</b>	15	17
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>61</b>	66	54
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	1010	<b>990</b>	1041	834
Calcium	ppm	ASTM D5185m	1070	<b>1048</b>	1172	987
Phosphorus	ppm	ASTM D5185m	1150	<b>1091</b>	1142	951
Zinc	ppm	ASTM D5185m	1270	<b>1265</b>	1362	1150
Sulfur	ppm	ASTM D5185m	2060	<b>3714</b>	4231	2883
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>12.8</b>	12.9	13.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.9</b>	8.9	8.6
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.9</b>	14.1	13.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0088609  
**Lab Number** : 06187185  
**Unique Number** : 11043937  
**Test Package** : FLEET

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

GFL Environmental - 172 - Montgomery-Alexander City-Tallahassee  
 Multiple Sites  
 Montgomery, AL  
 US 36108  
 Contact: RICHARD HATFIELD  
 rhatfield@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: