



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

Machine Id  
**3894**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (11 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0072107</b>	GFL0072179	GFL0072162
Sample Date		Client Info		<b>08 Feb 2024</b>	03 Nov 2023	28 Jun 2023
Machine Age	hrs	Client Info		<b>32558</b>	32558	31877
Oil Age	hrs	Client Info		<b>0</b>	600	600
Filter Age	hrs	Client Info		<b>0</b>	600	600
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	<b>45</b>	10	3
Chromium	ppm	ASTM D5185m	>5	<b>1</b>	<1	0
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	2	<1
Lead	ppm	ASTM D5185m	>150	<b>0</b>	2	0
Copper	ppm	ASTM D5185m	>90	<b>9</b>	<1	<1
Tin	ppm	ASTM D5185m	>5	<b>0</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**

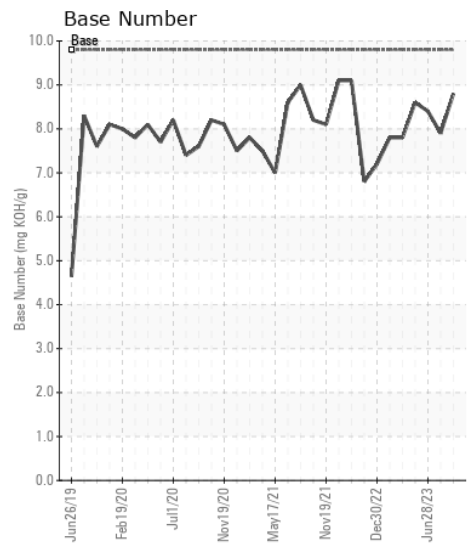
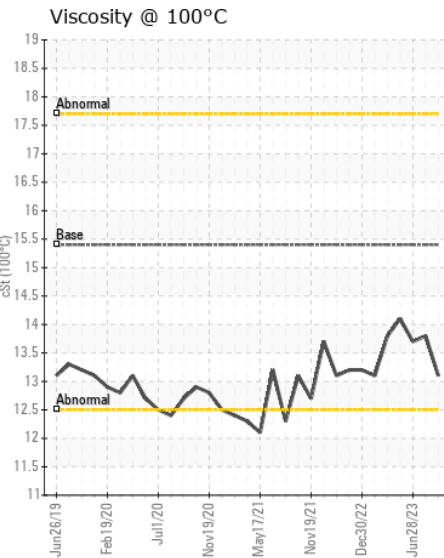
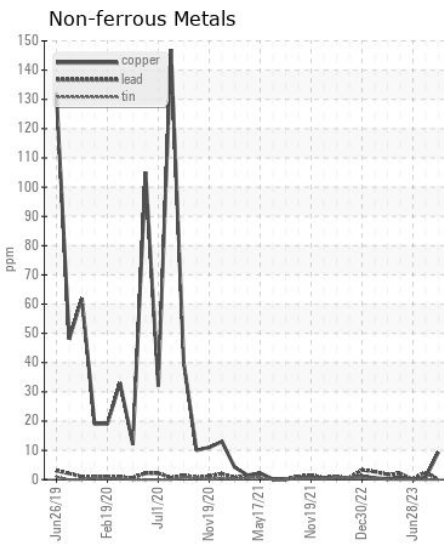
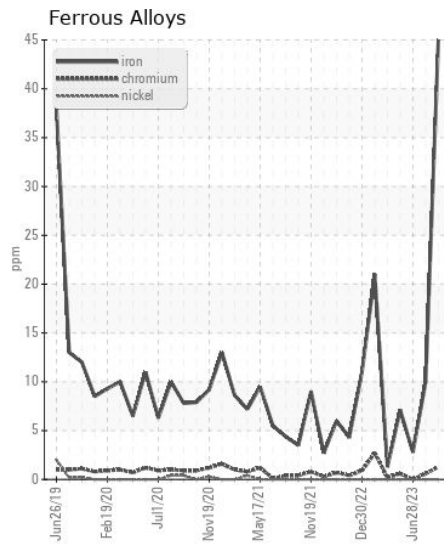
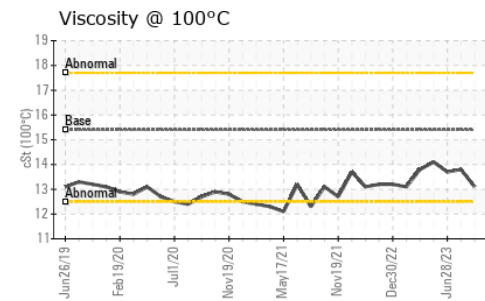
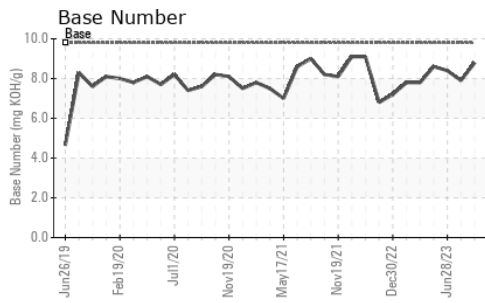
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	<b>16</b>	5	3
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	3	<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	>7.5	<b>0.7</b>	0.4	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.6</b>	8.6	5.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.4</b>	20.6	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>39</b>	0	2
Boron	ppm	ASTM D5185m	0	<b>21</b>	<1	13
Barium	ppm	ASTM D5185m	0	<b>2</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>52</b>	66	62
Manganese	ppm	ASTM D5185m	0	<b>1</b>	0	0
Magnesium	ppm	ASTM D5185m	1010	<b>687</b>	980	976
Calcium	ppm	ASTM D5185m	1070	<b>1442</b>	1115	1093
Phosphorus	ppm	ASTM D5185m	1150	<b>863</b>	969	1029
Zinc	ppm	ASTM D5185m	1270	<b>1142</b>	1284	1247
Sulfur	ppm	ASTM D5185m	2060	<b>2725</b>	3227	3790
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.8</b>	16.4	14.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.8</b>	7.9	8.4
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.1</b>	13.8	13.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0072107  
**Lab Number** : 06085580  
**Unique Number** : 10873025  
**Test Package** : FLEET

**Received** : 12 Feb 2024  
**Tested** : 12 Feb 2024  
**Diagnosed** : 12 Feb 2024 - Wes Davis

**GFL Environmental - 094 - Cedartown**  
 2097 Buchanan Highway  
 Cedartown, GA  
 US 30125  
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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)