



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

Machine Id  
**729062-362015**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0107002</b>	GFL0094251	GFL0085379
Sample Date		Client Info		<b>07 Feb 2024</b>	02 Nov 2023	21 Jul 2023
Machine Age	hrs	Client Info		<b>12068</b>	11523	10914
Oil Age	hrs	Client Info		<b>12068</b>	0	10914
Filter Age	hrs	Client Info		<b>12068</b>	0	10914
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	<b>20</b>	5	22
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>15	<b>0</b>	2	5
Lead	ppm	ASTM D5185m	>25	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>100	<b>0</b>	<1	1
Tin	ppm	ASTM D5185m	>4	<b>0</b>	0	0
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**

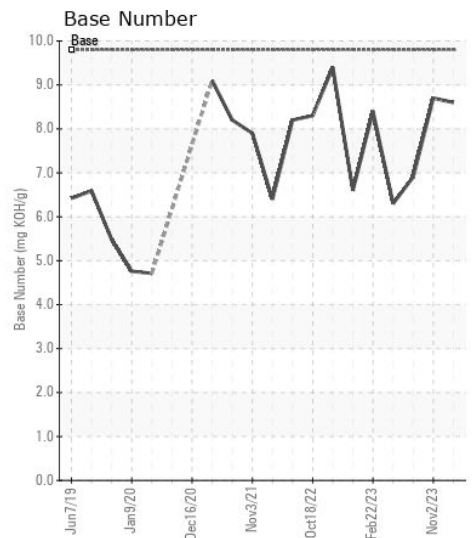
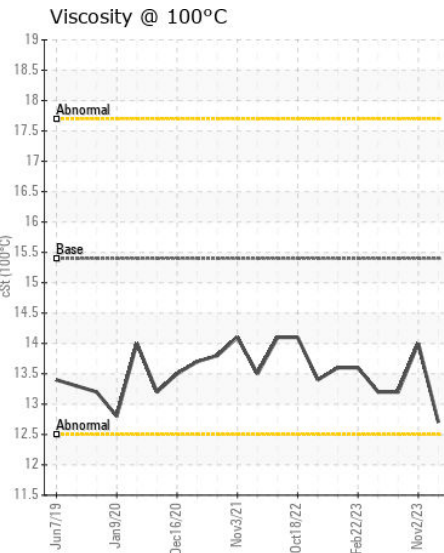
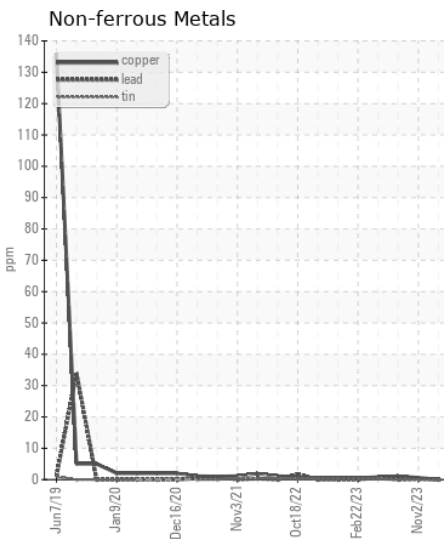
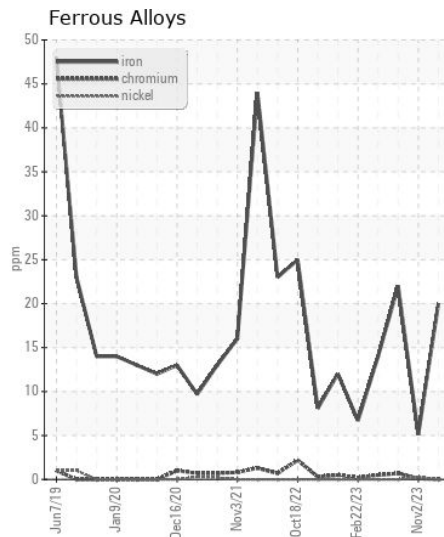
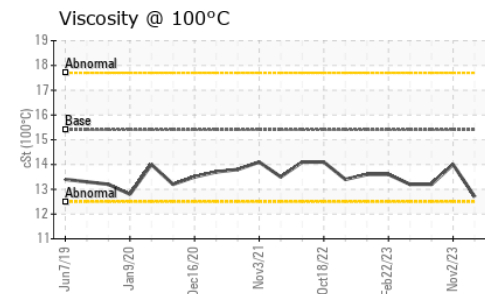
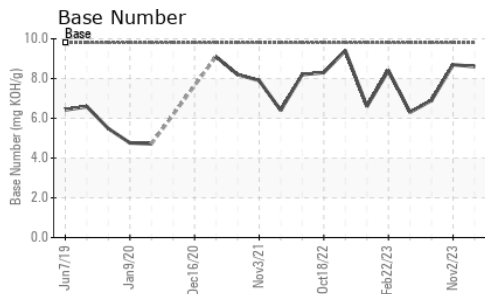
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>2</b>	4	0
Potassium	ppm	ASTM D5185m	>20	<b>7</b>	13	37
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>1.5</b>	0.2	0.8
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.3</b>	7.1	10.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.8</b>	19.2	21.6
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>15</b>	14	69
Boron	ppm	ASTM D5185m	0	<b>&lt;1</b>	23	3
Barium	ppm	ASTM D5185m	0	<b>0</b>	5	3
Molybdenum	ppm	ASTM D5185m	60	<b>56</b>	52	83
Manganese	ppm	ASTM D5185m	0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	1010	<b>869</b>	580	1017
Calcium	ppm	ASTM D5185m	1070	<b>1057</b>	1398	1439
Phosphorus	ppm	ASTM D5185m	1150	<b>963</b>	836	1243
Zinc	ppm	ASTM D5185m	1270	<b>1168</b>	930	1489
Sulfur	ppm	ASTM D5185m	2060	<b>2903</b>	2264	3903
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.7</b>	15.9	17.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.6</b>	8.7	6.9
Visc @ 100°C	cSt	ASTM D445	15.4	<b>12.7</b>	14.0	13.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0107002  
**Lab Number** : 06085655  
**Unique Number** : 10873100  
**Test Package** : FLEET

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

**GFL Environmental - 882 - Gainesville**  
 5002 SW 41st Blvd  
 Gainesville, FL  
 US 32608  
 Contact: ROBERT CLARK  
 robert.clark@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: