



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

Area  
**(P633846)**

Machine Id  
**10772C**

Component  
**Natural Gas Engine**

Fluid  
**PETRO CANADA DURON GEO LD 15W40 (30 QTS)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0101749</b>	GFL0101751	GFL0090082
Sample Date		Client Info		<b>29 Feb 2024</b>	23 Feb 2024	06 Dec 2023
Machine Age	mls	Client Info		<b>130740</b>	17003	16680
Oil Age	mls	Client Info		<b>0</b>	600	601
Filter Age	mls	Client Info		<b>0</b>	600	600
Oil Changed		Client Info		<b>N/A</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ATTENTION	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>20</b>	31	23
Chromium	ppm	ASTM D5185m	>4	<b>4</b>	2	3
Nickel	ppm	ASTM D5185m	>2	<b>2</b>	<1	1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>9	<b>3</b>	3	3
Lead	ppm	ASTM D5185m	>30	<b>1</b>	0	0
Copper	ppm	ASTM D5185m	>35	<b>2</b>	<1	3
Tin	ppm	ASTM D5185m	>4	<b>1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

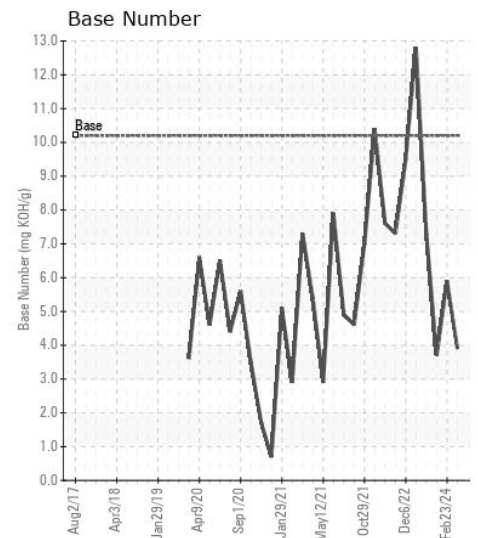
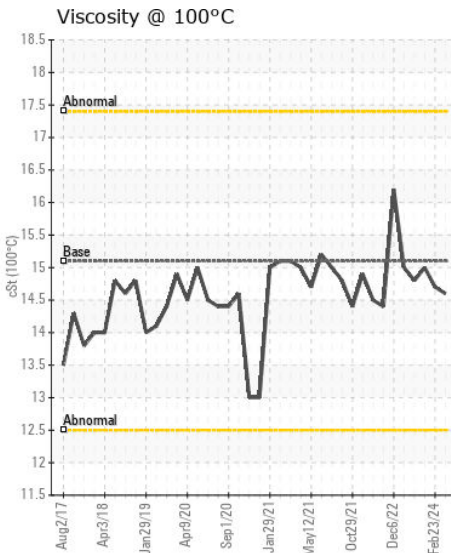
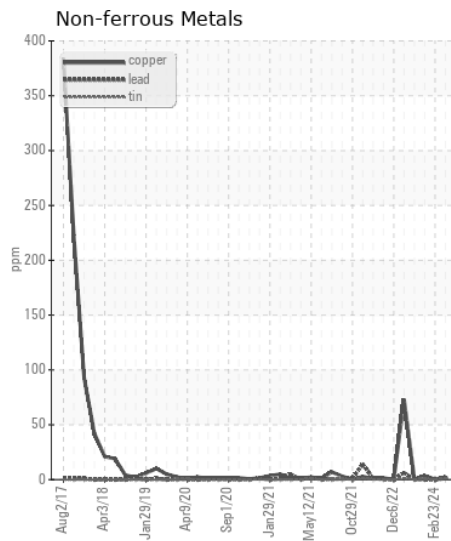
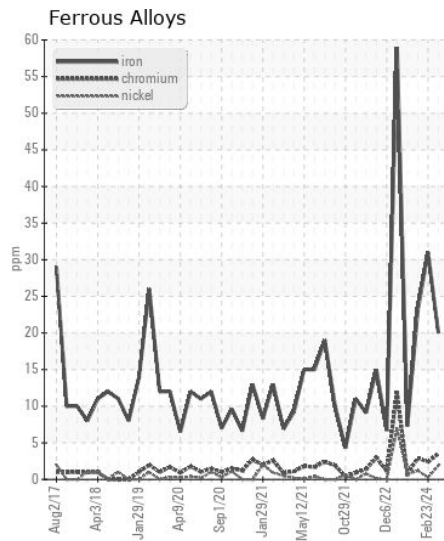
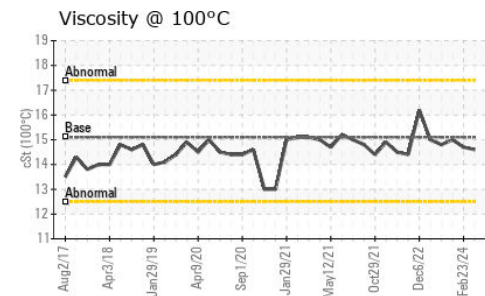
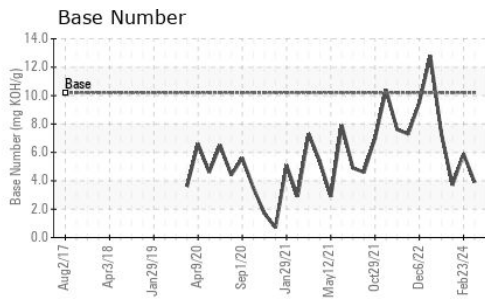
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>11</b>	12	19
Potassium	ppm	ASTM D5185m	>20	<b>15</b>	47	20
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.3</b>	9.7	12.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.6</b>	20.4	22.3
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	>0.1	<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>26</b>	7	27
Boron	ppm	ASTM D5185m	50	<b>10</b>	24	8
Barium	ppm	ASTM D5185m	5	<b>0</b>	8	0
Molybdenum	ppm	ASTM D5185m	50	<b>61</b>	77	55
Manganese	ppm	ASTM D5185m	0	<b>2</b>	0	5
Magnesium	ppm	ASTM D5185m	560	<b>664</b>	760	794
Calcium	ppm	ASTM D5185m	1510	<b>1486</b>	2140	1403
Phosphorus	ppm	ASTM D5185m	780	<b>785</b>	1024	752
Zinc	ppm	ASTM D5185m	870	<b>1032</b>	1311	1023
Sulfur	ppm	ASTM D5185m	2040	<b>2528</b>	3644	2485
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.1</b>	17.0	19.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>3.9</b>	5.9	3.7
Visc @ 100°C	cSt	ASTM D445	15.1	<b>14.6</b>	14.7	15.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0101749  
**Lab Number** : 06105765  
**Unique Number** : 10909262  
**Test Package** : FLEET

**Received** : 01 Mar 2024  
**Tested** : 01 Mar 2024  
**Diagnosed** : 05 Mar 2024 - Sean Felton

**GFL Environmental - 030 - Conway Myrtle Beach**  
 3010 HWY 378  
 Conway, SC  
 US 29527  
 Contact: ARCILIO RUEZ  
 aruiz@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:  
F: