



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



Machine Id  
**945001-152555**  
Component  
**Natural Gas Engine**  
Fluid  
**PETRO CANADA DURON GEO LD 15W40 (8 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0088459</b>	GFL0073226	GFL0073230
Sample Date		Client Info		<b>05 Feb 2024</b>	16 Nov 2023	16 May 2023
Machine Age	hrs	Client Info		<b>20955</b>	20389	19391
Oil Age	hrs	Client Info		<b>600</b>	19391	650
Filter Age	hrs	Client Info		<b>600</b>	650	650
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>20</b>	19	20
Chromium	ppm	ASTM D5185m	>5	<b>3</b>	2	3
Nickel	ppm	ASTM D5185m	>4	<b>3</b>	<1	1
Titanium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	3	4
Lead	ppm	ASTM D5185m	>40	<b>8</b>	7	8
Copper	ppm	ASTM D5185m	>150	<b>9</b>	4	8
Tin	ppm	ASTM D5185m	>4	<b>2</b>	4	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

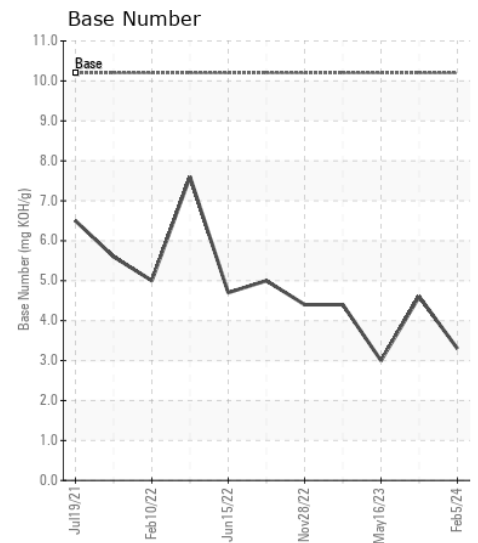
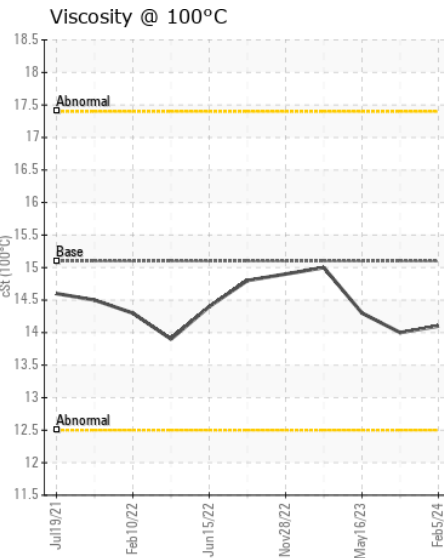
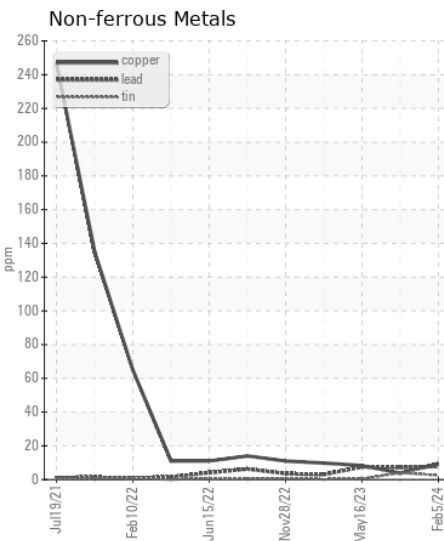
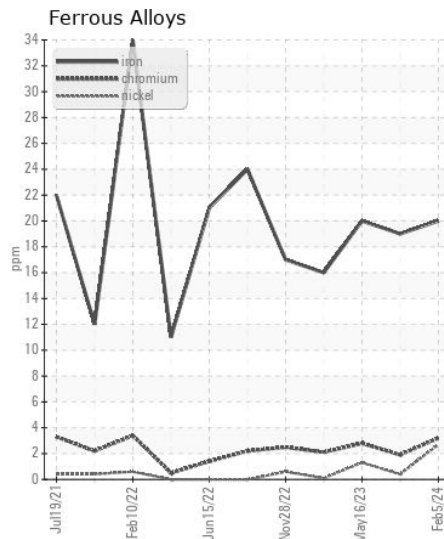
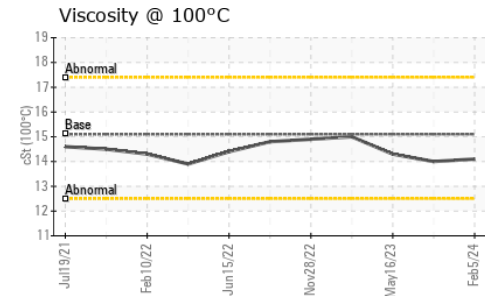
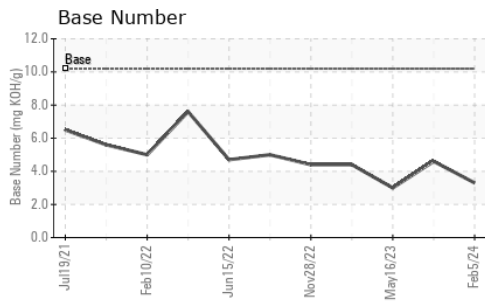
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>8</b>	▲ 25	5
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	3
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>11.5</b>	11.6	12.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.1</b>	22.0	26.0
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>6</b>	3	12
Boron	ppm	ASTM D5185m	50	<b>4</b>	19	4
Barium	ppm	ASTM D5185m	5	<b>15</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>60</b>	60	75
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185m	560	<b>515</b>	720	546
Calcium	ppm	ASTM D5185m	1510	<b>1455</b>	1372	1620
Phosphorus	ppm	ASTM D5185m	780	<b>661</b>	685	713
Zinc	ppm	ASTM D5185m	870	<b>882</b>	959	971
Sulfur	ppm	ASTM D5185m	2040	<b>2526</b>	2439	2432
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.9</b>	19.4	22.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>3.3</b>	4.6	3.0
Visc @ 100°C	cSt	ASTM D445	15.1	<b>14.1</b>	14.0	14.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0088459  
**Lab Number** : 06085662  
**Unique Number** : 10873107  
**Test Package** : FLEET

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

**GFL Environmental - 146 - Augusta**  
 1064 Franke Industrial  
 Augusta, GA  
 US 30909  
 Contact: JEFFERY WASHINGTON  
 jeff.washington@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: