



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

Area

(P633852)

Machine Id

10775C

Component

Natural Gas Engine

Fluid

PETRO CANADA DURON GEO LD 15W40 (30 QTS)

**RECOMMENDATION**

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0125699</b>	GFL0101761	GFL0101753
Sample Date		Client Info		<b>20 Jun 2024</b>	26 Mar 2024	22 Mar 2024
Machine Age	hrs	Client Info		<b>16399</b>	15951	15930
Oil Age	hrs	Client Info		<b>600</b>	600	600
Filter Age	hrs	Client Info		<b>600</b>	600	600
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>MARGINAL</b>	ABNORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>13</b>	58	54
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	4	4
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	2	2
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>9	<b>2</b>	8	7
Lead	ppm	ASTM D5185m	>30	<b>1</b>	7	7
Copper	ppm	ASTM D5185m	>35	<b>0</b>	2	2
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	2	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

Sodium and/or potassium levels remain high. Test for glycol is negative.

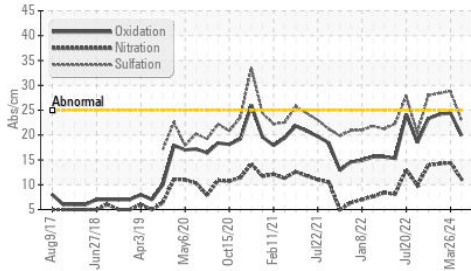
Silicon	ppm	ASTM D5185m	>+100	<b>4</b>	11	11
Potassium	ppm	ASTM D5185m	>20	<b>▲ 76</b>	▲ 218	▲ 209
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.1</b>	14.4	14.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.0</b>	28.8	28.4
Silt	scalar	*Visual	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**

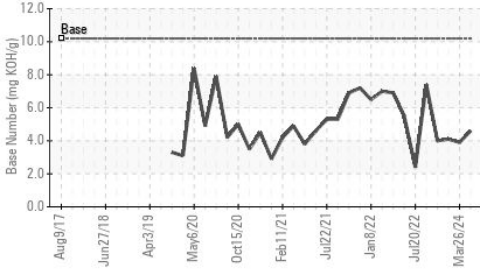
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>11</b>	▲ 25	▲ 25
Boron	ppm	ASTM D5185m	50	<b>12</b>	13	14
Barium	ppm	ASTM D5185m	5	<b>0</b>	1	1
Molybdenum	ppm	ASTM D5185m	50	<b>55</b>	70	68
Manganese	ppm	ASTM D5185m	0	<b>1</b>	3	3
Magnesium	ppm	ASTM D5185m	560	<b>624</b>	749	736
Calcium	ppm	ASTM D5185m	1510	<b>1746</b>	2082	2033
Phosphorus	ppm	ASTM D5185m	780	<b>811</b>	1068	1052
Zinc	ppm	ASTM D5185m	870	<b>1072</b>	1239	1218
Sulfur	ppm	ASTM D5185m	2040	<b>2900</b>	2952	2974
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.9</b>	24.4	24.2
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>4.6</b>	3.9	4.1
Visc @ 100°C	cSt	ASTM D445	15.1	<b>14.8</b>	14.9	14.9

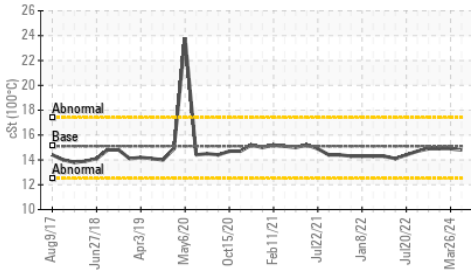
**FT-IR (Direct Trend)**



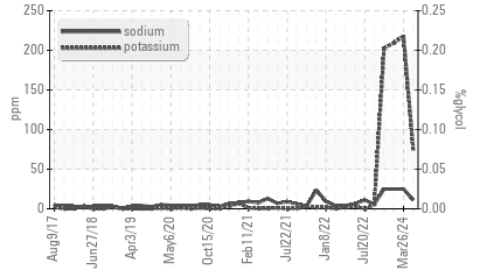
**Base Number**



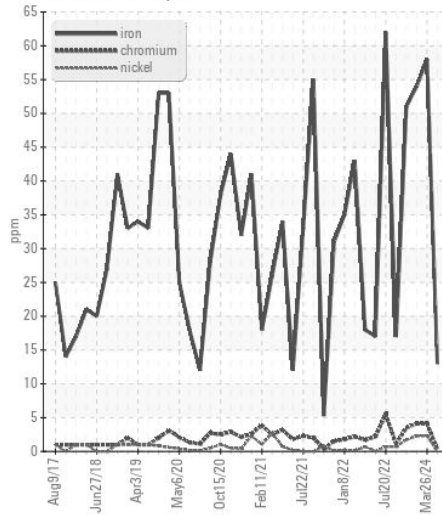
**Viscosity @ 100°C**



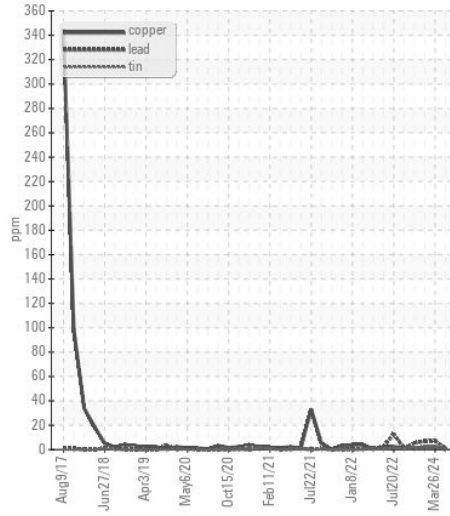
**Glycol Contamination**



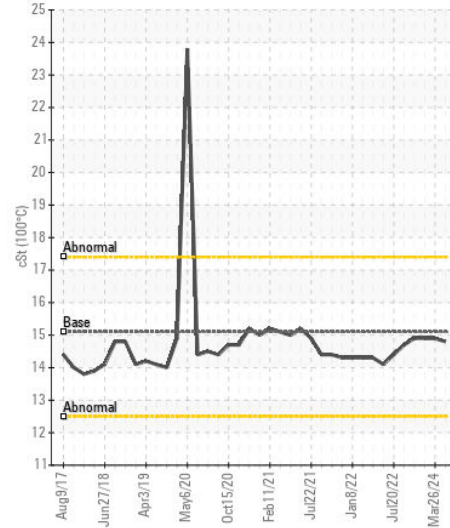
**Ferrous Alloys**



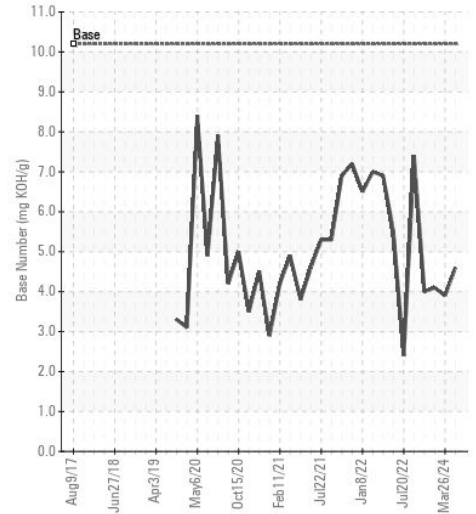
**Non-ferrous Metals**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0125699 **Received** : 21 Jun 2024  
**Lab Number** : 06216710 **Tested** : 24 Jun 2024  
**Unique Number** : 11089574 **Diagnosed** : 24 Jun 2024 - Jonathan Hester  
**Test Package** : FLEET ( Additional Tests: Glycol )

**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)

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F: