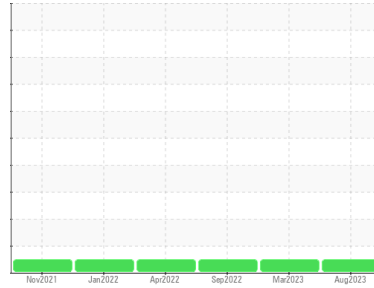




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**731074**  
 Component  
**Natural Gas Engine**  
 Fluid  
**PETRO CANADA DURON GEO LD 15W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0085858</b>	GFL0071064	GFL0054871
Sample Date	Client Info		<b>21 Aug 2023</b>	01 Mar 2023	12 Sep 2022
Machine Age	hrs	Client Info	<b>5553</b>	4382	3205
Oil Age	hrs	Client Info	<b>1200</b>	1200	0
Oil Changed	Client Info		<b>Changed</b>	N/A	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >50	<b>12</b>	13	11
Chromium	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185(m) >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m) >9	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m) >30	<b>11</b>	1	<1
Copper	ppm	ASTM D5185(m) >35	<b>2</b>	2	2
Tin	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	<1	<1
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 50	<b>10</b>	8	6
Barium	ppm	ASTM D5185(m) 5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 50	<b>58</b>	55	55
Manganese	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m) 560	<b>636</b>	600	585
Calcium	ppm	ASTM D5185(m) 1510	<b>1626</b>	1729	1649
Phosphorus	ppm	ASTM D5185(m) 780	<b>792</b>	800	768
Zinc	ppm	ASTM D5185(m) 870	<b>973</b>	956	941
Sulfur	ppm	ASTM D5185(m) 2040	<b>2114</b>	2164	2090
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >+100	<b>4</b>	5	5
Sodium	ppm	ASTM D5185(m)	<b>9</b>	9	9
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	0

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	<b>&gt;20</b>	12.6	4.7
Sulfation	Abs/.1mm	ASTM D7415*	<b>&gt;30</b>	25.4	15.1

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	<b>&gt;25</b>	18.5	18.6	7.5

## VISUAL

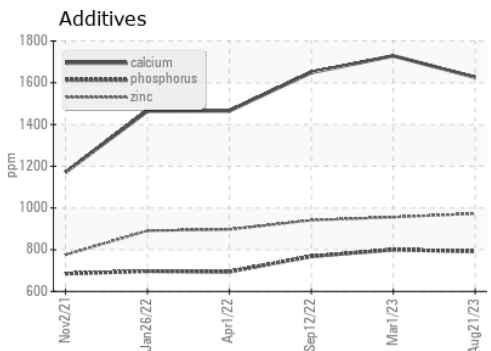
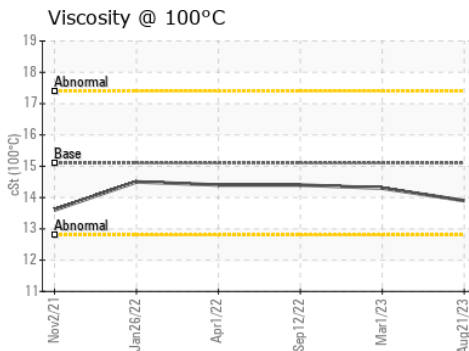
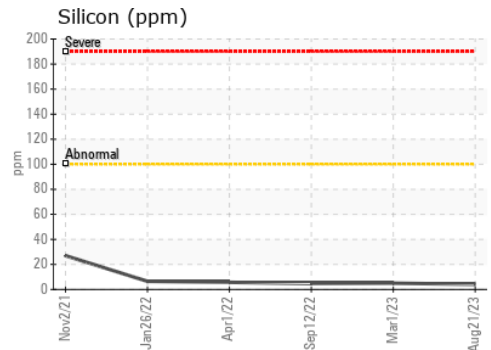
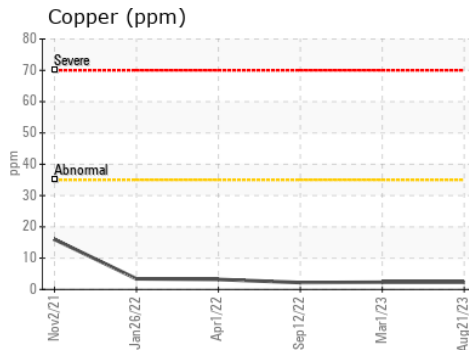
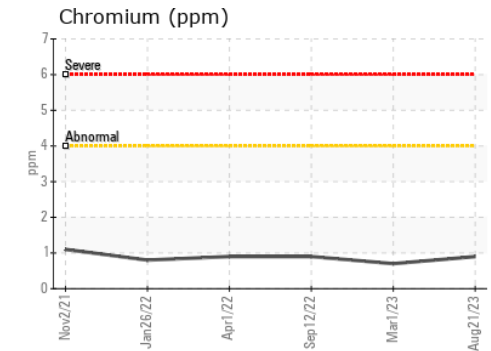
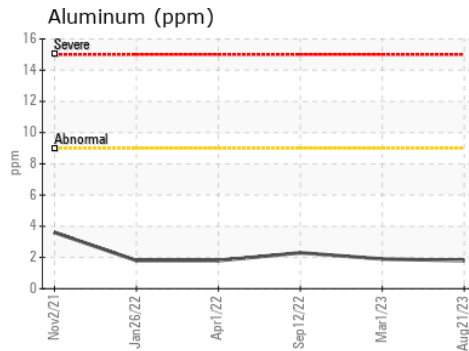
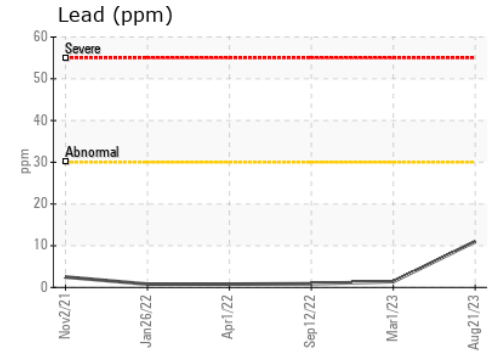
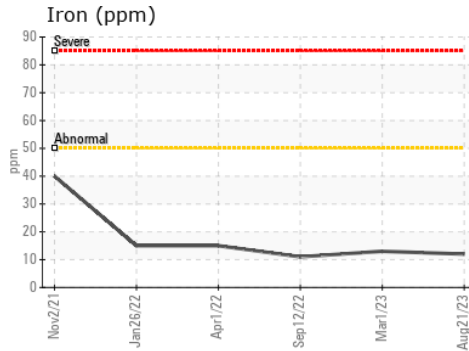
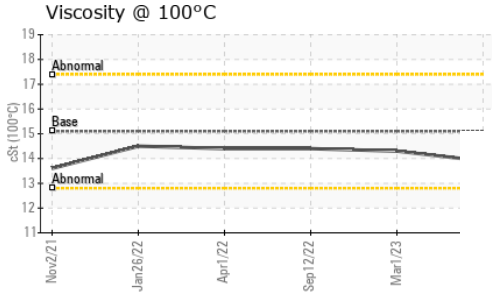
	method	limit/base	current	history1	history2	
Emulsified Water	scalar	Visual*	<b>&gt;0.1</b>	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*	<b>NEG</b>	NEG	NEG	NEG



# OIL ANALYSIS REPORT

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	<b>13.9</b>	14.3	14.4

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 209 - Hamilton**  
**Sample No.** : GFL0085858 **Received** : 22 Aug 2023 **560 Seaman Street**  
**Lab Number** : 02577395 **Diagnosed** : 22 Aug 2023 **Stoney Creek, ON**  
**Unique Number** : 5630455 **Diagnostician** : Wes Davis **CA L8E 3X7**  
**Test Package** : MOB 1 **Contact: Fred Carleton**

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Validity of results and interpretation are based on the sample and information as supplied.

fred.carleton@gflenv.com

T: (289)925-6693

F: (905)664-9008