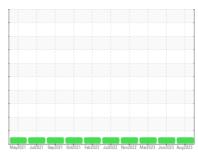


# **OIL ANALYSIS REPORT**

#### Sample Rating Trend







Machine Id **426083** 

Component **Natural Gas Engine** 

PETRO CANADA DURON GEO LD 15W40 (--- LTR)

### DIAGNOSIS

#### Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. 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.

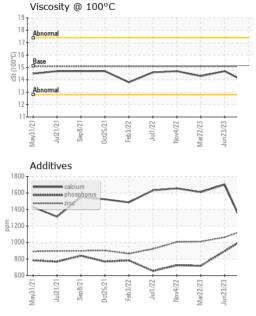
#### **Fluid Condition**

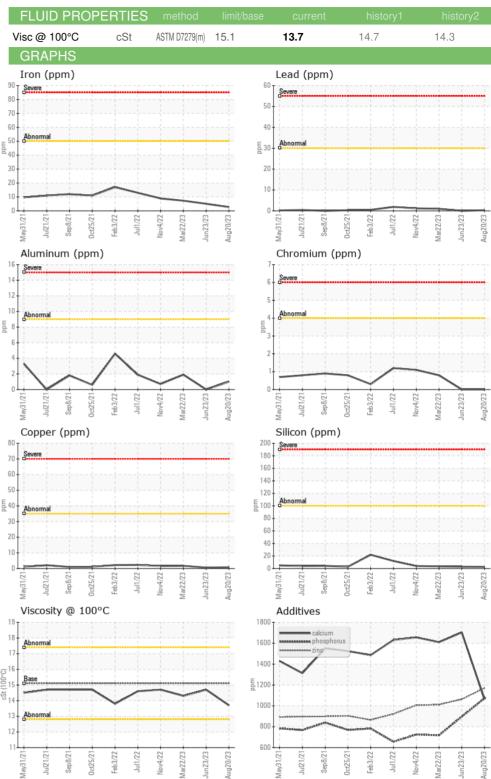
Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

LTR)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0088933	GFL0085389	GFL0063841
Sample Date		Client Info		20 Aug 2023	23 Jun 2023	22 Mar 2023
Machine Age	hrs	Client Info		0	20178	19488
Oil Age	hrs	Client Info		0	690	1019
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>50	3	5	7
Chromium	ppm	ASTM D5185(m)	>4	0	0	<1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>9	1	0	2
Lead	ppm	ASTM D5185(m)	>30	<1	0	1
Copper	ppm	. ,	>35	<1	<1	2
Tin	ppm	ASTM D5185(m)	>4	<1	0	<1
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	50	7	29	7
Barium	ppm	ASTM D5185(m)	5	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	59	58	55
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	560	967	616	532
Calcium	ppm	ASTM D5185(m)	1510	1065	1703	1610
Phosphorus	ppm	ASTM D5185(m)	780	1072	897	718
Zinc	ppm	ASTM D5185(m)	870	1170	1063	1012
Sulfur	ppm	ASTM D5185(m)	2040	2631	3040	2457
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>+100	3	3	3
Sodium	ppm	ASTM D5185(m)		2	3	5
Potassium	ppm	ASTM D5185(m)	>20	0	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	5.9	8.0	11.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.4	19.5	22.3
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.1	17.4	18.3
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG



## **OIL ANALYSIS REPORT**







CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number** 

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : GFL0088933 : 02577091

: 5630151 Test Package : MOB 1

Received : 21 Aug 2023 : 21 Aug 2023 Diagnosed Diagnostician : Wes Davis

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.

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CA M4B 0A6 Contact: Tom Hatzioannidis thatzioannidis@gflenv.com

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