

## **PROBLEM SUMMARY**

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

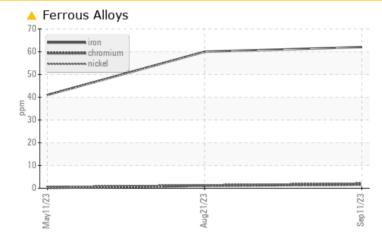
Sample Rating Trend WEAR

## COMPONENT CONDITION SUMMARY

Fluid

Machine Id 933048 Component

**Center Natural Gas Engine** 



### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL	NORMAL		
Iron	ppm	ASTM D5185m	>50	<u> </u>	<u>    60</u>	41		

Customer Id: GFL883 Sample No.: GFL0071728 Lab Number: 05950734 Test Package: FLEET



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Don Baldridge +1 <u>don.b505@comcast.net</u>

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Fluid			?	Oil and filter change at the time of sampling has been noted.		
Change Filter			?	Oil and filter change at the time of sampling has been noted.		

### HISTORICAL DIAGNOSIS



## 21 Aug 2023 Diag: Don Baldridge

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



### 11 May 2023 Diag: Doug Bogart



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

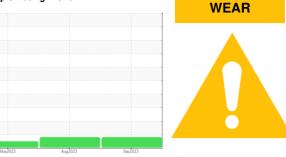




## **OIL ANALYSIS REPORT**

Sample Rating Trend

limit/base



current

history1

history2



Component Center Natural Gas Engine Fluid PETRO CANADA DURON GEO LD 15W40 (--- GAL)

SAMPLE INFORMATION method

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		-		0		

#### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

### 🔺 Wear

Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

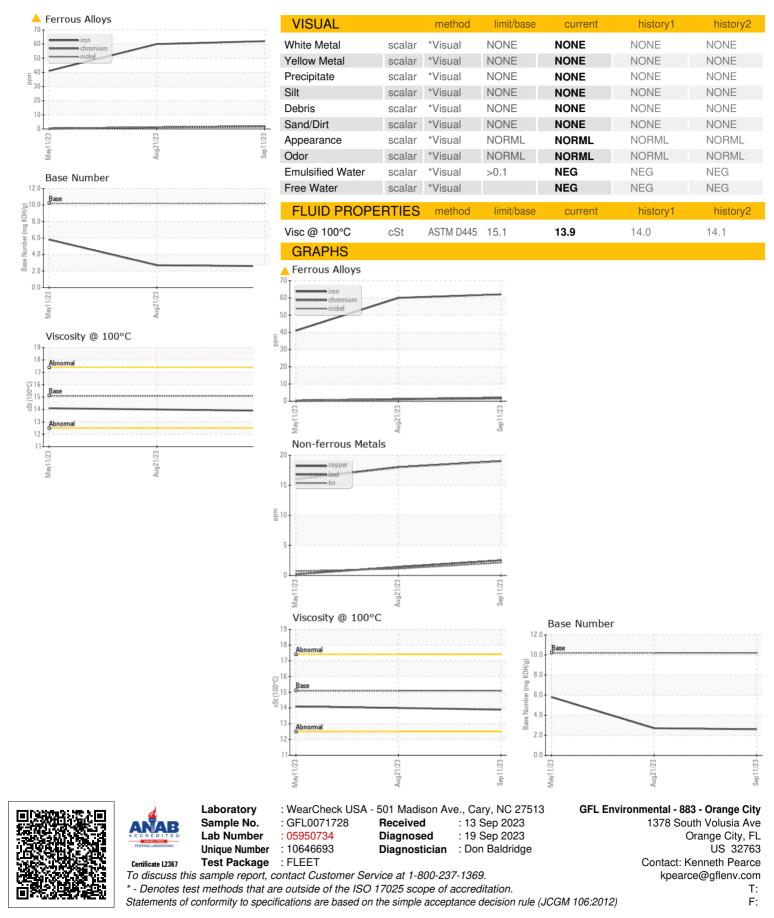
### Fluid Condition

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

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Sample Number		Client Info		GFL0071728	GFL0071723	GFL0058476
Sample Date		Client Info		11 Sep 2023	21 Aug 2023	11 May 2023
Machine Age	hrs	Client Info		1184	1038	290
Oil Age	hrs	Client Info		1184	600	600
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<u> </u>	<u>    60</u>	41
Chromium	ppm	ASTM D5185m	>5	2	1	<1
Nickel	ppm	ASTM D5185m	>4	2	1	<1
Titanium	ppm	ASTM D5185m	>5	0	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>25	17	14	5
Lead	ppm	ASTM D5185m	>40	2	1	<1
Copper	ppm	ASTM D5185m	>150	19	18	16
Tin	ppm	ASTM D5185m	>4	2	1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	7	6	24
Barium	ppm	ASTM D5185m	5	1	0	0
Molybdenum	ppm	ASTM D5185m	50	57	56	47
Manganese	ppm	ASTM D5185m	0	16	16	14
Magnesium	ppm	ASTM D5185m	560	813	797	735
Calcium	ppm	ASTM D5185m	1510	1079	1110	942
Phosphorus	ppm	ASTM D5185m	780	778	765	724
Zinc	ppm	ASTM D5185m	870	969	963	884
Sulfur	ppm	ASTM D5185m	2040	2843	2741	2485
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	32	32	35
Sodium	ppm	ASTM D5185m		7	7	4
Potassium	ppm	ASTM D5185m	>20	27	23	18
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	0
Nitration	Abs/cm	*ASTM D7624	>20	12.1	11.8	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.0	24.9	20.5
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.0	23.7	19.2
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	2.6	2.7	5.8
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# **OIL ANALYSIS REPORT**



Submitted By: Kenneth Pearce

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