

## **PROBLEM SUMMARY**

Sample Rating Trend

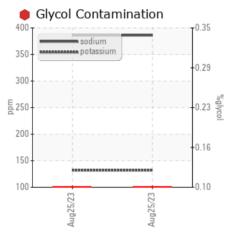
GLYCOL

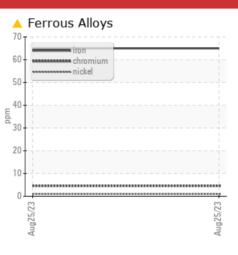
# Machine Id 548000

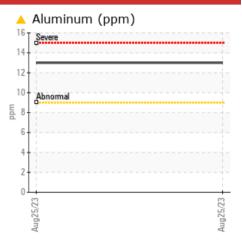
Component
Natural Gas Engine

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

### COMPONENT CONDITION SUMMARY







### RECOMMENDATION

We advise that you check for the source of the coolant leak. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE				
Iron	ppm	ASTM D5185m	>50	🔺 65				
Chromium	ppm	ASTM D5185m	>4	<b>5</b>				
Aluminum	ppm	ASTM D5185m	>9	<u> </u>				
Sodium	ppm	ASTM D5185m		<b>A</b> 386				
Potassium	ppm	ASTM D5185m	>20	<u> </u>				
Glycol	%	*ASTM D2982		• 0.10				

Customer Id: GFL963 Sample No.: GFL0090358 Lab Number: 05938126 Test Package: FLEET



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

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

RECOMMENDED	ECOMMENDED 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.		
Resample			?	We recommend an early resample to monitor this condition.		
Check Glycol Access			?	We advise that you check for the source of the coolant leak.		

### HISTORICAL DIAGNOSIS



### **OIL ANALYSIS REPORT**

Sample Rating Trend

GLYCOL

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# Machine Id 548000

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

### DIAGNOSIS

#### Recommendation

We advise that you check for the source of the coolant leak. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### 🔺 Wear

Piston, ring and cylinder wear is indicated.

### Contamination

Sodium and/or potassium levels are high. Test for glycol is positive.

#### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0090358		
Sample Date		Client Info		25 Aug 2023		
Machine Age	hrs	Client Info		8227		
Oil Age	hrs	Client Info		8227		
Oil Changed		Client Info		Changed		
Sample Status				SEVERE		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>6</b> 5		
Chromium	ppm	ASTM D5185m	>4	<u> </u>		
Nickel	ppm	ASTM D5185m	>2	1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>9	<u> </u>		
Lead	ppm	ASTM D5185m	>30	5		
Copper	ppm	ASTM D5185m	>35	4		
Tin	ppm	ASTM D5185m	>4	<1		
Vanadium Cadmium	ppm	ASTM D5185m ASTM D5185m		0		
	ppm	ASTIVI DOTODIII		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	59		
Barium	ppm	ASTM D5185m	5	0		
Molybdenum	ppm	ASTM D5185m	50	132		
Manganese	ppm	ASTM D5185m		1		
Magnesium	ppm	ASTM D5185m	560 1510	748 1414		
Calcium	ppm	ASTM D5185m ASTM D5185m	780	733		
Phosphorus Zinc	ppm	ASTM D5185m	870	907		
Sulfur	ppm ppm	ASTM D5185m	2040	3859		
CONTAMINAN		method	limit/base		biotomat	biotory 0
				current	history1	history2
Silicon Sodium	ppm	ASTM D5185m ASTM D5185m	>+100	78 <b>A</b> 386		
Potassium	ppm	ASTM D5185m	>20	▲ 380 ▲ 132		
Glycol	ppm %	*ASTM D5185111	220	0.10		
-	70			•		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1		
Nitration	Abs/cm	*ASTM D7624	>20	7.7		
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8		
	mg KOH/g	ASTM D2896	10.2	8.0		
Base Number (BN)	nių konių	AOTIVI DE000	10.2	0.0		



# **OIL ANALYSIS REPORT**

