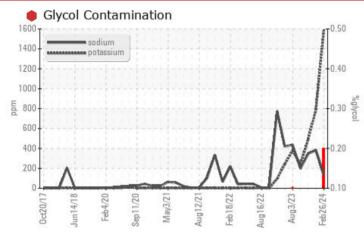


#### Area (YA134232) Machine Id 2667C

Component Natural Gas Engine Fluid PETRO CANADA DURON GEO LD 15W40 (12 GAL)

## COMPONENT CONDITION SUMMARY



#### RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	ABNORMAL	ABNORMAL		
Sodium	ppm	ASTM D5185m		<u> </u>	<mark>▲</mark> 383	<b>4</b> 347		
Potassium	ppm	ASTM D5185m	>20	🔺 1578	<b>A</b> 787	<b>4</b> 91		
Glycol	%	*ASTM D2982		0.20				

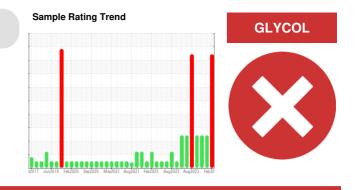
Customer Id: GFL017 Sample No.: GFL0112923 Lab Number: 06100022 Test Package: FLEET



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Jonathan Hester +1 919-379-4092 x4092 <u>jhester@wearcheckusa.com</u>

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



RECOMMENDED ACTIONS								
Action	Status	Date	Done By	Description				
Change Fluid			?	We recommend that you drain the oil and perform a filter service on this component if not already done.				
Change Filter			?	We recommend that you drain the oil and perform a filter service on this component if not already done.				
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



04 Dec 2023 Diag: Jonathan Hester

We advise that you check for possible coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.





We advise that you check for possible coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.

#### 08 Aug 2023 Diag: Jonathan Hester

13 Sep 2023 Diag: Jonathan Hester

### COOLANT



We advise that you check for possible coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.



view report





# **OIL ANALYSIS REPORT**

#### Area (YA134232) Machine Id 2667C

Component Natural Gas Engine

Fluid PETRO CANADA DURON GEO LD 15W40 (12 GAL)

### DIAGNOSIS

#### Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

#### Wear

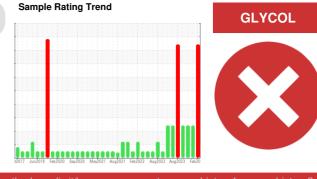
All component wear rates are normal.

#### 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. The oil is no longer serviceable due to the presence of contaminants.



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0112923	GFL0098121	GFL0079612
Sample Date		Client Info		26 Feb 2024	04 Dec 2023	13 Sep 2023
Machine Age	hrs	Client Info		6792	6792	6792
Oil Age	hrs	Client Info		581	556	295
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	ABNORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS	5	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	9	10	13
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>9	2	2	<1
Lead	ppm	ASTM D5185m	>30	<1	1	<1
Copper	ppm	ASTM D5185m	>35	<1	0	<1
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	16	11	18
Barium	ppm	ASTM D5185m	5	8	0	0
Molybdenum	ppm	ASTM D5185m	50	50	62	62
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	560	500	523	636
Calcium	ppm	ASTM D5185m	1510	1325	1515	1720
Phosphorus	ppm	ASTM D5185m	780	774	636	816
Zinc	ppm	ASTM D5185m	870	838	987	993
Sulfur	ppm	ASTM D5185m	2040	2494	2699	3160
CONTAMINAN	ΓS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	39	15	18
Sodium	ppm	ASTM D5185m		<u> </u>	<b>A</b> 383	<b>4</b> 347
Potassium	ppm	ASTM D5185m	>20	<u> </u>	<b>A</b> 787	<b>4</b> 91
Glycol	%	*ASTM D2982		0.20		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	8.6	11.3	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	23.1	21.5
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
	ATION Abs/.1mm	method *ASTM D7414		current 16.4	history1 18.3	history2 17.0



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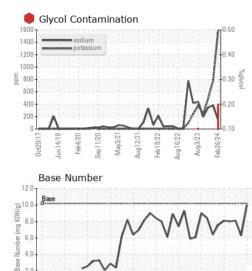
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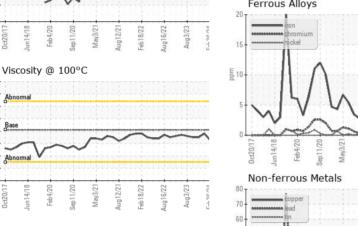
> 13 Abnorma 12

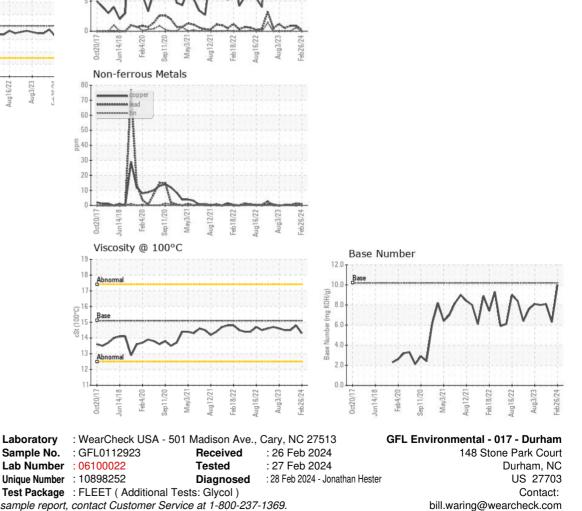
# **OIL ANALYSIS REPORT**



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
	DTIEO					
FLUID PROPE	RHES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.3	14.8	14.5
GRAPHS						

Ferrous Alloys





Test Package : FLEET (Additional Tests: Glycol) Certificate L2367 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. T: (919)596-1363 F: (919)598-1852 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Laboratory

Sample No.