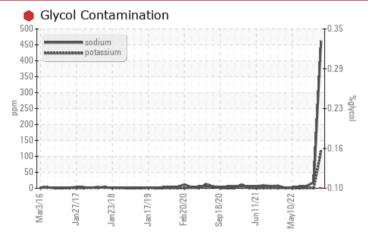


PROBLEM SUMMARY



Machine Id **2594C** Component **Natural Gas Engine** Fluid **PETRO CANADA DURON GEO LD 15W40 (7 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 from the component if this has not already been done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	ABNORMAL	NORMAL			
Sodium	ppm	ASTM D5185m		<u> </u>	19	6			
Potassium	ppm	ASTM D5185m	>20	🔺 116	<1	1			
Glycol	%	*ASTM D2982		0.10					
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	A 3.1	2 .3	5.7			

Customer Id: GFL045 Sample No.: GFL0060109 Lab Number: 06003950 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 jhester@wearcheckusa.com

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			?	We recommend that you drain the oil from the component if this has not already been 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



16 Jan 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. The lead level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The BN level is low.



view report

12 Sep 2022 Diag: Jonathan Hester

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.

15 Jun 2022 Diag: Don Baldridge



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

GLYCOL

Machine Id 2594C Component **Natural Gas Engine** Fluic

PETRO CANADA DURON GEO LD 15W40 (7 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 from the component if this has not already been 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 level is low.

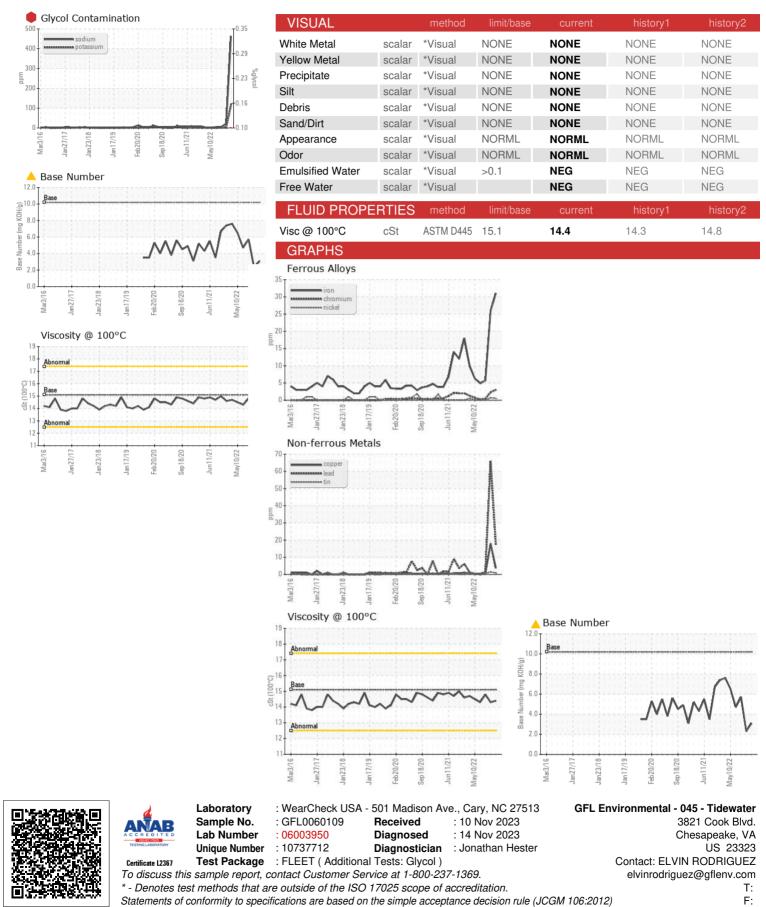


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SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0060109	GFL0052233	GFL0052199
Sample Date		Client Info		08 Nov 2023	16 Jan 2023	12 Sep 2022
Machine Age	hrs	Client Info		15744	15744	15744
Oil Age	hrs	Client Info		15744	17994	17389
Oil Changed		Client Info		N/A	Changed	Not Changd
Sample Status				SEVERE	ABNORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	31	26	6
Chromium	ppm	ASTM D5185m	>4	3	2	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>9	4	2	2
Lead	ppm	ASTM D5185m	>30	17	6 6	1
Copper	ppm	ASTM D5185m	>35	4	18	<1
Tin	ppm	ASTM D5185m	>4	<1	1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	6	9	12
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	74	53	56
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	560	578	643	516
Calcium	ppm	ASTM D5185m	1510	1888	1871	1651
Dhaanharua						
Phosphorus	ppm	ASTM D5185m	780	846	766	676
Zinc	ppm ppm	ASTM D5185m ASTM D5185m	780 870	1057	766 1054	970
Zinc Sulfur	ppm ppm					
Zinc Sulfur CONTAMINAN	ppm ppm	ASTM D5185m	870	1057	1054	970
Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m	870 2040	1057 2342	1054 2437	970 2335
Zinc Sulfur CONTAMINAN	ppm ppm TS	ASTM D5185m ASTM D5185m method	870 2040 limit/base	1057 2342 current	1054 2437 history1	970 2335 history2
Zinc Sulfur CONTAMINAN Silicon	ppm ppm TS ppm	ASTM D5185m ASTM D5185m method ASTM D5185m	870 2040 limit/base	1057 2342 current 16 ▲ 462 ▲ 116	1054 2437 history1 20	970 2335 history2 18
Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	870 2040 limit/base >+100	1057 2342 current 16 ▲ 462	1054 2437 history1 20 19	970 2335 history2 18 6
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D2982	870 2040 limit/base >+100	1057 2342 current 16 ▲ 462 ▲ 116	1054 2437 history1 20 19	970 2335 history2 18 6 1
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Glycol	ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D2982	870 2040 limit/base >+100 >20	1057 2342 current 16 ▲ 462 ▲ 116 ● 0.10	1054 2437 history1 20 19 <1 	970 2335 history2 18 6 1
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED	ppm ppm TS ppm ppm ppm %	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m *ASTM D2982 Method	870 2040 limit/base >+100 >20	1057 2342 current 16 ▲ 462 ▲ 116 ● 0.10 current	1054 2437 history1 20 19 <1 history1	970 2335 history2 18 6 1 history2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED Soot %	ppm ppm TS ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D2982 method *ASTM D7844	870 2040 Iimit/base >+100 >20 Iimit/base	1057 2342 current 16 ▲ 462 ▲ 116 ● 0.10 current 0.1	1054 2437 history1 20 19 <1 history1 0.1	970 2335 history2 18 6 1 history2 0.1
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration	ppm ppm TS ppm ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D2982 method *ASTM D7844 *ASTM D7824	870 2040 >+100 >20 limit/base >20	1057 2342 current 16 ▲ 462 ▲ 116 ● 0.10 current 0.1 13.7	1054 2437 history1 20 19 <1 history1 0.1 15.1	970 2335 history2 18 6 1 1 history2 0.1 12.8
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration Sulfation	ppm ppm TS ppm ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D2982 method *ASTM D7844 *ASTM D7824	870 2040 >+100 >20 limit/base >20 >20 >30	1057 2342 current 16 ▲ 462 ▲ 116 ● 0.10 current 0.1 13.7 28.2	1054 2437 history1 20 19 <1 history1 0.1 0.1 15.1 30.1	970 2335 history2 18 6 1 history2 0.1 12.8 24.1



OIL ANALYSIS REPORT



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