



PROBLEM SUMMARY

Area (YA122726) 3647C Component Natural Gas Engine Fluid PETRO CANADA DURON GEO LD 15W40 (35 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	NORMAL	ABNORMAL		
Sodium	ppm	ASTM D5185m		<u> </u>	8	310		
Potassium	ppm	ASTM D5185m	>20	<u> </u>	4	5 0		
Glycol	%	*ASTM D2982		4 0.10		▲ 0.06		

Customer Id: GFL005 Sample No.: GFL0109665 Lab Number: 06150037 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			?	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 Jan 2024 Diag: Jonathan Hester

Resample at the next service interval to monitor.All component wear rates are normal. No evidence of coolant present in the oil. 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.





29 Jun 2023 Diag: Doug Bogart

We advise that you check for possible coolant leak. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal for time on oil. Sodium and/or potassium levels are high. Trace concentration of anti-freeze present in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil.





24 Jan 2023 Diag: Sean Felton

No corrective action is recommended at this time. Resample at the next service interval to monitor.Cylinder, crank, or cam shaft wear is indicated. 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.





(YA122726)

Natural Gas Engine

3647C

OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL

PETRO CANADA DURON GEO LD 15W40 (35 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

Area

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high. Test for glycol is positive. There is a high concentration of glycol present in the oil.

Fluid Condition

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

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0109665	GFL0092684	GFL0086421
Sample Date		Client Info		10 Apr 2024	04 Jan 2024	29 Jun 2023
Machine Age	hrs	Client Info		0	18265	18265
Oil Age	hrs	Client Info		0	313	762
Oil Changed		Client Info		N/A	Not Changd	Changed
Sample Status				SEVERE	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	historv1	history2
	0		50		15	50
Iron	ppm	ASTM D5185m	>50	26	15	59
Chromium	ppm	ASTM D5185m	>4	4	2	/
Nickel	ppm	ASTM D5185m	>2	0	1	3
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	3	2	3
Lead	ppm	ASTM D5185m	>30	1	2	19
Copper	ppm	ASTM D5185m	>35	4	6	4
Tin	ppm	ASTM D5185m	>4	1	1	2
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	22	4	9
Barium	ppm	ASTM D5185m	5	<1	0	1
Molybdenum	ppm	ASTM D5185m	50	99	61	105
Manganese	ppm	ASTM D5185m	0	2	2	3
Magnesium	ppm	ASTM D5185m	560	767	889	1196
Calcium	ppm	ASTM D5185m	1510	1419	1120	2281
Phosphorus	maa	ASTM D5185m	780	954	841	1443
Zinc	ppm	ASTM D5185m	870	1108	1220	1775
Sulfur	ppm	ASTM D5185m	2040	3222	2898	3904
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	18	13	16
Sodium	ppm	ASTM D5185m		<u> </u>	8	310
Potassium	maa	ASTM D5185m	>20	298	4	5 0
Glycol	%	*ASTM D2982		4 0.10		▲ 0.06
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.9	4.6	13.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	16.9	33.0
FLUID DEGRAL	DAT <u>ION</u>	method	limit/base	current	history1	history2
Ovidation	Abe/ 1mm	*AGTM D7/14	> 25	15.5	10.2	25.9
Dago Number (DN)		ACTM D0000	10.0	0.0	0.2	20.0
Dase Number (DN)	niy KOR/g	ASTIVI DZ090	10.2	0.0	9.4	0.2



OIL ANALYSIS REPORT



Submitted By: WALTER SKOKOWSKI