

PROBLEM SUMMARY

(NK1680) Machine Id AUTOCAR 3848C

Component Natural Gas Engine Fluid

PETRO CANADA DURON GEO LD 15W40 (9 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	ABNORMAL	ABNORMAL		
Sodium	ppm	ASTM D5185m		<u> </u>	A 309	1 01		
Potassium	ppm	ASTM D5185m	>20	409	9 1	<u> </u>		
Glycol	%	*ASTM D2982		a 0.12				

Customer Id: GFL331 Sample No.: GFL0087482 Lab Number: 06111854 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 <u>customerservice@wearcheck.com</u>



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.
Flush System			?	We advise that you flush the component thoroughly before re-filling with oil.
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



07 Sep 2023 Diag: Jonathan Hester

We advise that you check for the source of the coolant leak. Check for low coolant level. 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. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.





10 Aug 2023 Diag: Jonathan Hester

COOL CHEMICALS



We advise that you check for the source of the 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.



NORMAL



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.



view report





OIL ANALYSIS REPORT

Area (NK1680) Machine Id AUTOCAR 3848C Component

Natural Gas Engine Fluid PETRO CANADA DURON GEO LD 15W40 (9 GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Test for glycol is positive. There is a high concentration of glycol present in the oil.

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 INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0087482	GFL0087467	GFL0087543
Sample Date		Client Info		06 Mar 2024	07 Sep 2023	10 Aug 2023
Machine Age	hrs	Client Info		12368	11314	11125
Oil Age	hrs	Client Info		1054	1136	947
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				SEVERE	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	19	15	9
Chromium	ppm	ASTM D5185m	>4	1	4	3
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	3	3
Lead	ppm	ASTM D5185m	>30	<1	17	5
Copper	ppm	ASTM D5185m	>35	1	2	<1
Tin	ppm	ASTM D5185m	>4	0	<1	1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	17	16	15
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	111	76	63
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	560	474	653	612
Calcium	ppm	ASTM D5185m	1510	1473	1842	1719
Phosphorus	ppm	ASTM D5185m	780	592	817	792
Zinc	ppm	ASTM D5185m	870	876	1113	1059
Sulfur	ppm	ASTM D5185m	2040	2365	3096	3045
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	30	13	9
Sodium	ppm	ASTM D5185m		<u> </u>	<u> </u>	<u> </u>
Potassium	ppm	ASTM D5185m	>20	409	4 91	<u> </u>
Glycol	%	*ASTM D2982		4 0.12		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	11.1	11.9	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	25.2	23.8
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	21.4	20.3
Base Number (BN)	ma KOH/a	ASTM D2896	10.2	6.8	4.7	4.4



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
	RTIES	method	limit/base	current	history1	history2
		method	11111/0030	ourrent	motory	motoryz
Visc @ 100°C	cSt	ASTM D445	15.1	13.9	14.7	14.6
GRAPHS						

Ferrous Alloys

Non-ferrous Metals





Certificate L2367

Test Package : FLEET (Additional Tests: Glycol) To discuss this sample report, contact Customer Service at 1-800-237-1369. matt.segars@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Page 4 of 4