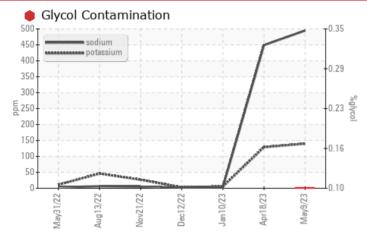




Machine Id 711011

Component Diesel Engine Fluid CASTROL CRB Multi 15W-40 CK-4 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	ABNORMAL	NORMAL		
Molybdenum	ppm	ASTM D5185m		<u> </u>	97	59		
Magnesium	ppm	ASTM D5185m		4 943	909	945		
Sodium	ppm	ASTM D5185m		495	<u> </u>	3		
Potassium	ppm	ASTM D5185m	>20	4 140	<u> </u>	6		
Glycol	%	*ASTM D2982		0.10	NEG	NEG		

Customer Id: GFL821 Sample No.: GFL0076823 Lab Number: 05849380 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Resample	MISSED	Jun 17 2023	?	We recommend an early resample to monitor this condition.		
Check Fluid Source	MISSED	Jun 17 2023	?	Confirm the source of the lubricant being utilized for top-up/fill.		
Check Glycol Access	MISSED	Jun 17 2023	?	We advise that you check for the source of the coolant leak.		

HISTORICAL DIAGNOSIS



18 Apr 2023 Diag: Jonathan Hester

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.



view report

10 Jan 2023 Diag: Wes Davis

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.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.

12 Dec 2022 Diag: Wes Davis



-

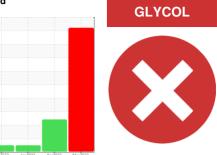
Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 711011

Component

Diesel Engine

CASTROL CRB Multi 15W-40 CK-4 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. 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.

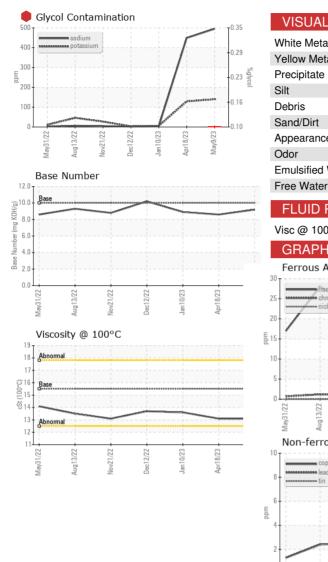
Fluid Condition

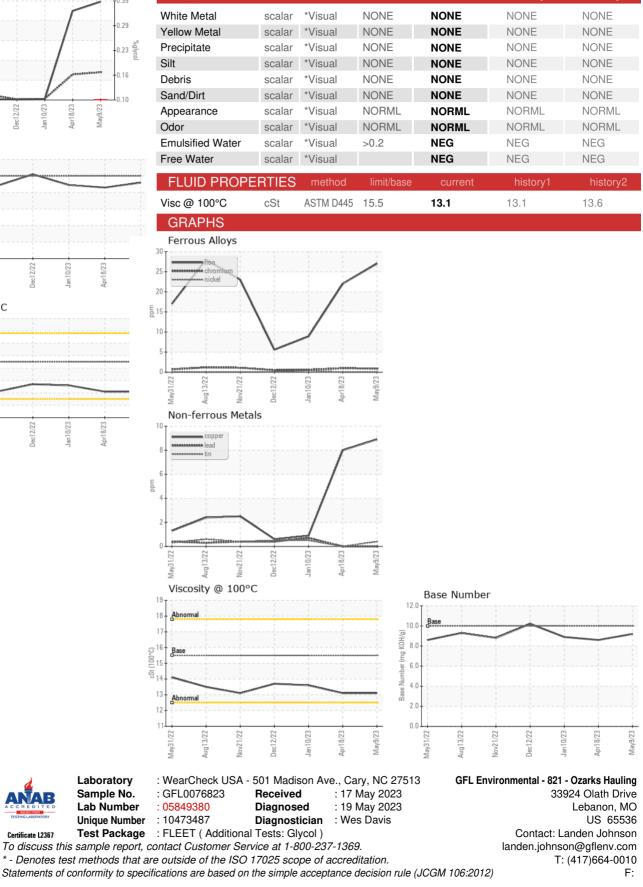
Additive levels indicate the addition of a different brand, or type of oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0076823	GFL0065398	GFL0065359
Sample Date		Client Info		09 May 2023	18 Apr 2023	10 Jan 2023
Machine Age	hrs	Client Info		6345	6208	5591
Oil Age	hrs	Client Info		600	200	200
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				SEVERE	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	27	22	9
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	9	7	4
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	9	8	<1
Tin	ppm	ASTM D5185m	>15	<1	0	<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		<1	4	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<u> </u>	97	59
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m		<mark>人</mark> 943	909	945
Calcium	ppm	ASTM D5185m		1091	1025	1045
Phosphorus	ppm	ASTM D5185m		999	994	1041
Zinc	ppm	ASTM D5185m		1234	1205	1273
Sulfur	ppm	ASTM D5185m		3300	3540	3781
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	6	4
Sodium	ppm	ASTM D5185m		<u> </u>	4 49	3
Potassium	ppm	ASTM D5185m	>20	<u> </u>	1 29	6
Glycol	%	*ASTM D2982		0.10	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.6	0.5
Nitration	Abs/cm	*ASTM D7624	>20	10.0	8.5	6.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	18.1	18.5
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	14.1	13.9
Base Number (BN)	mg KOH/g	ASTM D2896		9.2	8.6	8.9
	0 0					



OIL ANALYSIS REPORT





Certificate L2367

Contact/Location: GFL821, GFL824 and GFL829 - Landen Johnson - GFL821