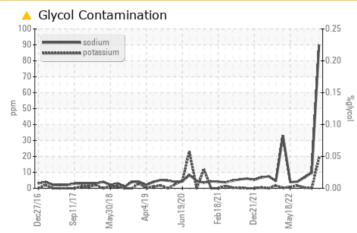


# 3582C AUTOCAR

Component Natural Gas Engine Fluid PETRO CANADA DURON GEO LD 15W40 (48 QTS)

# COMPONENT CONDITION SUMMARY



# RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status			ATTENTION	NORMAL	NORMAL		
Sodium	ppm	ASTM D5185m	<u> </u>	10	7		

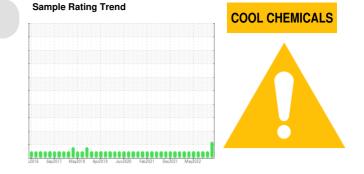
Customer Id: GFL001 Sample No.: GFL0087122 Lab Number: 05902174 Test Package: FLEET



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**

There are no recommended actions for this sample.

### **HISTORICAL DIAGNOSIS**

#### 05 Jan 2023 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.

# 16 Aug 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

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.

17 Jun 2022 Diag: Don Baldridge

#### 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 acceptable for the time in service.



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# **OIL ANALYSIS REPORT**

Sample Rating Trend

# **COOL CHEMICALS**

#### Machine Id 3582C AUTOCAR Component

Natural Gas Engine

Fluid PETRO CANADA DURON GEO LD 15W40 (48 QTS)

# DIAGNOSIS

#### A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

#### Contamination

Sodium and/or potassium levels are high. Test for glycol is negative.

### Fluid Condition

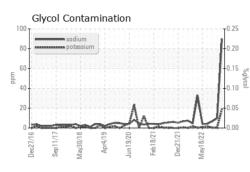
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

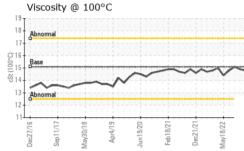
2016 Sm2017 Mm2018 Apr2019 Jun2020 Feb2021 Dm2021 Mm2022						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0087122	GFL0056666	GFL0052329
Sample Date		Client Info		17 Jul 2023	05 Jan 2023	16 Aug 2022
Machine Age	hrs	Client Info		9840	8538	7391
Oil Age	hrs	Client Info		0	1213	495
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				ATTENTION	NORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	22	14	11
Chromium	ppm	ASTM D5185m	>4	4	2	2
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>9	8	6	4
Lead	ppm	ASTM D5185m	>30	1	<1	1
Copper	ppm	ASTM D5185m	>35	2	<1	<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	18	11	17
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	57	53	52
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	560	607	536	574
Calcium	ppm	ASTM D5185m	1510	1729	1633	1625
Phosphorus	ppm	ASTM D5185m	780	831	731	784
Zinc	ppm	ASTM D5185m	870	1013	945	992
Sulfur	ppm	ASTM D5185m	2040	3040	2846	2610
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	15	6	12
Sodium	ppm	ASTM D5185m		<mark>/</mark> 90	10	7
Potassium	ppm	ASTM D5185m	>20	19	0	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	9.6	10.7	10.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	21.6	20.9
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	17.6	18.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	6.5	4.7	7.0

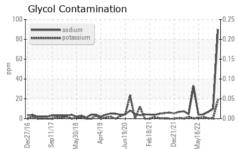
# 2016 Sep2017 May2018 Apr2019 Jun2020 Feb2021 Dec2021 May2022



# **OIL ANALYSIS REPORT**



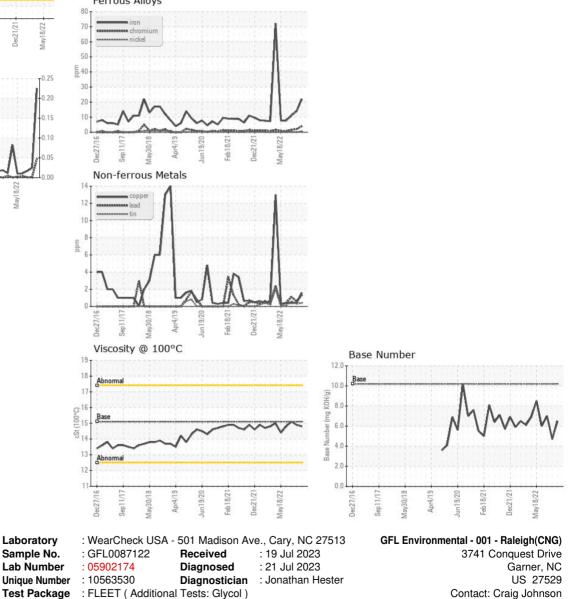




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.8	14.9	15.1
GRAPHS						

Ferrous Alloys

VIOLIA





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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: Craig Johnson

craig.johnson@gflenv.com

T: (919)662-7100

F: (919)662-7130

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