

# **PROBLEM SUMMARY**

Sample Rating Trend

lessileless



Machine Id **3789C AUTOCAR ACX** Component

Natural Gas Engine Fluid CHEVRON DELO 400 NG (48 QTS)

## 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>	7	20		
Potassium	ppm	ASTM D5185m	>20	🔺 529	4	4		
Glycol	%	*ASTM D2982		<b>A</b> 0.10				

Customer Id: GFL001 Sample No.: GFL0117412 Lab Number: 06227093 Test Package: FLEET



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*To discuss the diagnosis or test data:* Jonathan Hester +1 919-379-4092 x4092 <u>jhester@wearcheckusa.com</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

#### 23 Jan 2024 Diag: Wes Davis

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.





### 24 Oct 2023 Diag: Don Baldridge

The oil 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.Cylinder, crank, or cam shaft wear is indicated. There is no indication of any contamination in the oil. The BN level is low. The condition of the oil is acceptable for the time in service.





## 20 Oct 2023 Diag: Don Baldridge

The oil 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.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 acceptable for the time in service.





## **OIL ANALYSIS REPORT**

Sample Rating Trend

GLYCOL

Machine Id

# **3789C AUTOCAR ACX**

**Natural Gas Engine** Fluid CHEVRON DELO 400 NG (48 QTS)

### 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

All component wear rates are normal.

### Contamination

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

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil.



SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0117412	GFL0103162	GFL0094680
Sample Date		Client Info		01 Jul 2024	23 Jan 2024	24 Oct 2023
Machine Age	hrs	Client Info		37280	36114	26803
Oil Age	hrs	Client Info		1166	9311	0
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				SEVERE	NORMAL	ABNORMAL
CONTAMINATI	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	40	30	<b>6</b> 6
Chromium	ppm	ASTM D5185m	>4	5	3	<u> </u>
Nickel	ppm	ASTM D5185m	>2	<1	<1	2
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	8	2	<b>1</b> 0
Lead	ppm	ASTM D5185m	>30	2	1	9
Copper	ppm	ASTM D5185m	>35	<1	1	2
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		6	6	5
Barium	ppm	ASTM D5185m		0	0	3
Molybdenum	ppm	ASTM D5185m		70	58	67
Manganese	ppm	ASTM D5185m		<1	<1	2
Magnesium	ppm	ASTM D5185m		584	543	655
Calcium	ppm	ASTM D5185m		1641	1514	1740
Phosphorus	ppm	ASTM D5185m	800	707	663	928
Zinc	ppm	ASTM D5185m	880	976	975	1104
Sulfur	ppm	ASTM D5185m		2101	2317	2887
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	22	20	23
Sodium	ppm	ASTM D5185m		<u> </u>	7	20
Potassium	ppm	ASTM D5185m	>20	<u> </u>	4	4
Glycol	%	*ASTM D2982		<b>0.10</b>		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	13.3	11.2	12.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.3	22.3	29.6
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.5	18.8	26.3
Base Number (BN)	mg KOH/g	ASTM D2896	6.1	3.5	4.0	▲ 1.1



# **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	RHES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.8	15.0	14.9	15.3
GRAPHS						

Ferrous Alloys

20

19

18

cSt (100°C)

14

12









Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 001 - Raleigh(CNG) Sample No. : GFL0117412 Received : 03 Jul 2024 3741 Conquest Drive Lab Number : 06227093 Tested : 05 Jul 2024 Garner, NC Unique Number : 11110586 Diagnosed : 05 Jul 2024 - Jonathan Hester US 27529 Test Package : FLEET ( Additional Tests: Glycol ) Contact: Craig Johnson Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. craig.johnson@gflenv.com T: (919)662-7100 \* - 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) F: (919)662-7130

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Submitted By: aka Keith - Ronald Gregory

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