



Area  
**(YA115787)**

Machine Id  
**3493C**

Component  
**Natural Gas Engine**

Fluid  
**CHEVRON DELO 400 NG (30 GAL)**

**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**

Piston, ring and cylinder wear is indicated.

**CONTAMINATION**

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

**FLUID CONDITION**

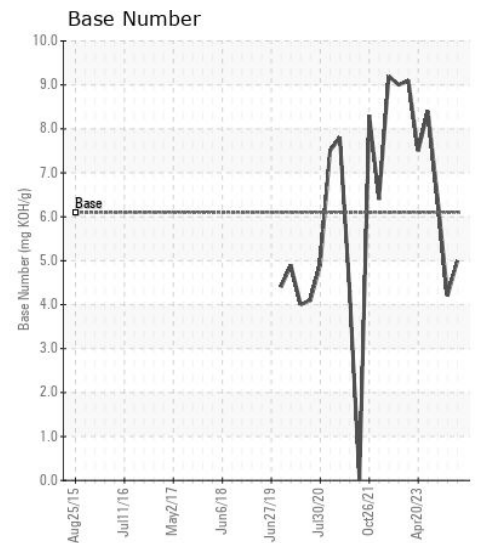
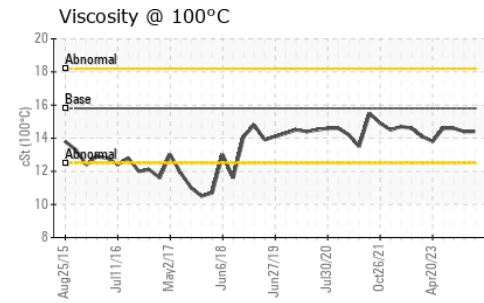
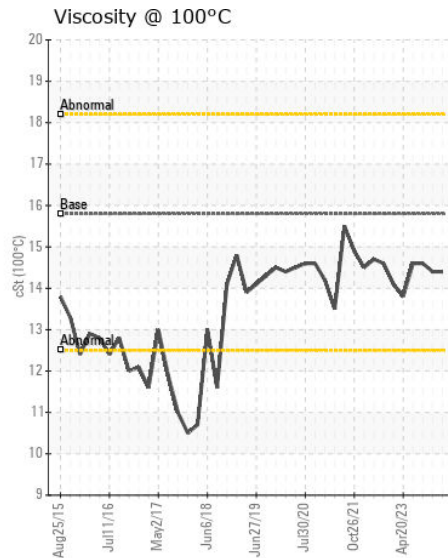
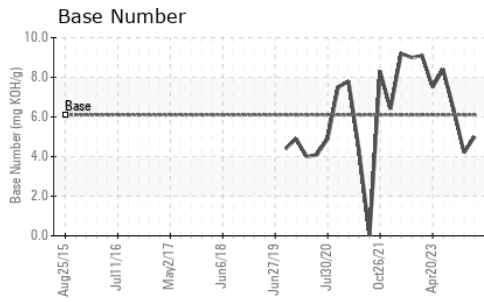
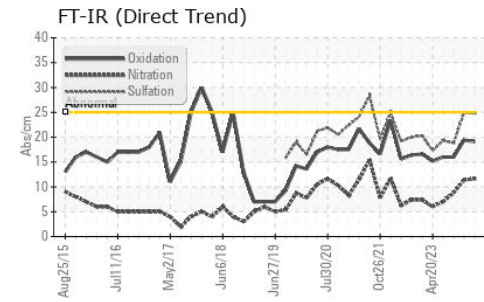
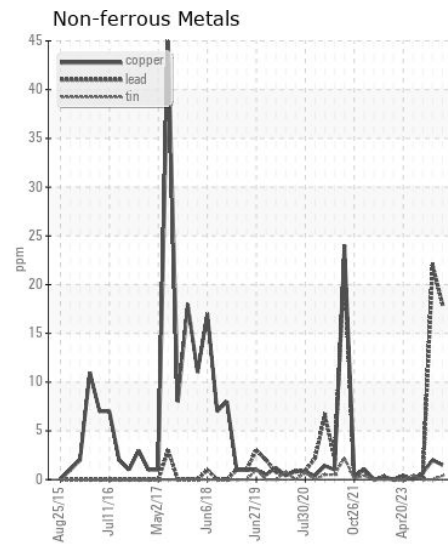
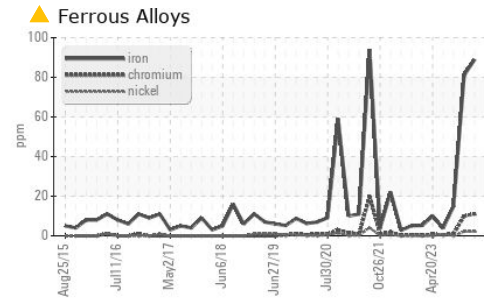
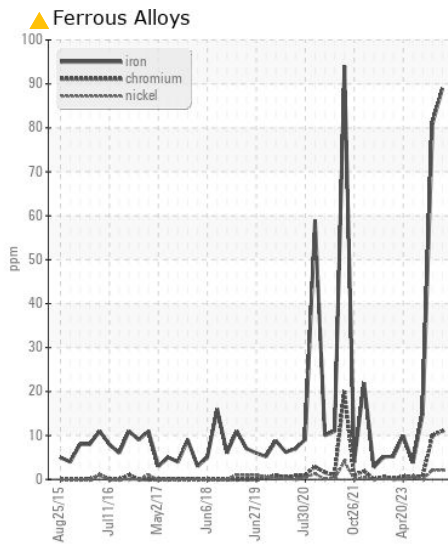
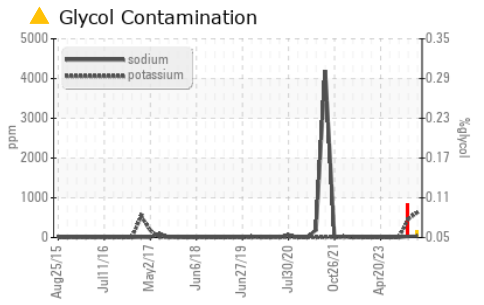
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0123351</b>	GFL0123394	GFL0082477
Sample Date		Client Info		<b>27 Jun 2024</b>	18 Jun 2024	18 Oct 2023
Machine Age	mls	Client Info		<b>116026</b>	116026	116026
Oil Age	mls	Client Info		<b>116026</b>	116026	116026
Filter Age	mls	Client Info		<b>116026</b>	116026	600
Oil Changed		Client Info		<b>N/A</b>	N/A	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>ABNORMAL</b>	SEVERE	NORMAL

Iron	ppm	ASTM D5185m	>50	<b>▲ 89</b>	▲ 81	15
Chromium	ppm	ASTM D5185m	>4	<b>▲ 11</b>	▲ 10	<1
Nickel	ppm	ASTM D5185m	>2	<b>2</b>	2	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>9	<b>9</b>	▲ 7	3
Lead	ppm	ASTM D5185m	>30	<b>18</b>	▲ 22	<1
Copper	ppm	ASTM D5185m	>35	<b>2</b>	2	<1
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

Silicon	ppm	ASTM D5185m	>+100	<b>16</b>	14	7
Potassium	ppm	ASTM D5185m	>20	<b>▲ 634</b>	▲ 470	4
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol	%	*ASTM D2982		<b>▲ 0.06</b>	▲ 0.10	---
Soot %	%	*ASTM D7844		<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.6</b>	11.4	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.8</b>	24.9	18.8
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

Sodium	ppm	ASTM D5185m		<b>▲ 34</b>	▲ 28	5
Boron	ppm	ASTM D5185m		<b>11</b>	8	15
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>62</b>	63	52
Manganese	ppm	ASTM D5185m		<b>1</b>	2	<1
Magnesium	ppm	ASTM D5185m		<b>569</b>	641	562
Calcium	ppm	ASTM D5185m		<b>1694</b>	1991	1665
Phosphorus	ppm	ASTM D5185m	800	<b>818</b>	914	764
Zinc	ppm	ASTM D5185m	880	<b>1046</b>	1191	997
Sulfur	ppm	ASTM D5185m		<b>2425</b>	3366	2423
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.1</b>	19.4	16.0
Base Number (BN)	mg KOH/g	ASTM D2896	6.1	<b>5.0</b>	4.2	6.4
Visc @ 100°C	cSt	ASTM D445	15.8	<b>14.4</b>	14.4	14.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : GFL0123351  
 Lab Number : 06227111  
 Unique Number : 11110604  
 Test Package : FLEET

Received : 03 Jul 2024  
 Tested : 05 Jul 2024  
 Diagnosed : 06 Jul 2024 - Don Baldrige

**GFL Environmental - 007 - Brunswick**  
 2809 Galloway Road  
 Bolivia, NC  
 US 28422  
 Contact: DONALD CRAVEN  
 dcraven@gflenv.com

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)

T:  
 F: (910)253-4179