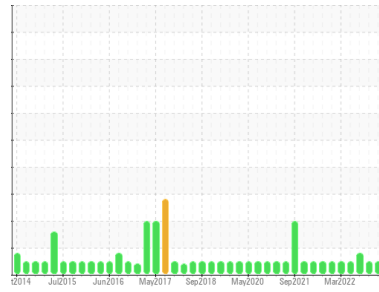




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**(YA130696)**  
 Machine Id  
**10417C**  
 Component  
**Natural Gas Engine**  
 Fluid  
**CHEVRON DELO 400 NG (30 GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>GFL0123412</b>	GFL0082461	GFL0050797
Sample Date	Client Info			<b>18 Jun 2024</b>	17 Jul 2023	06 Feb 2023
Machine Age	hrs	Client Info		<b>95952</b>	6505	5278
Oil Age	hrs	Client Info		<b>95952</b>	1227	1180
Oil Changed	Client Info			<b>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.1	<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>4</b>	13	26
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	2	▲ 6
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>9	<b>1</b>	2	3
Lead	ppm	ASTM D5185m	>30	<b>2</b>	9	2
Copper	ppm	ASTM D5185m	>35	<b>&lt;1</b>	1	1
Tin	ppm	ASTM D5185m	>4	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>43</b>	0	11
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>51</b>	62	79
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185m		<b>640</b>	677	721
Calcium	ppm	ASTM D5185m		<b>1780</b>	1987	2349
Phosphorus	ppm	ASTM D5185m	800	<b>918</b>	899	1003
Zinc	ppm	ASTM D5185m	880	<b>1108</b>	1172	1254
Sulfur	ppm	ASTM D5185m		<b>3365</b>	3315	2730

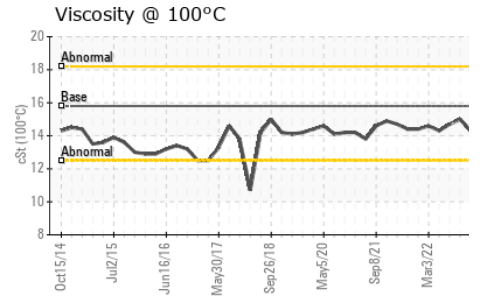
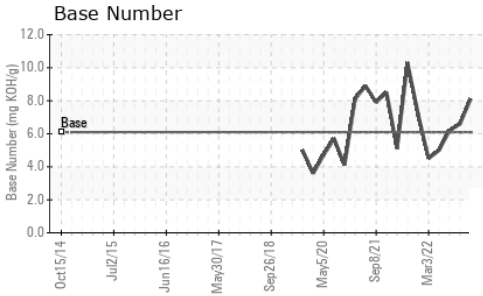
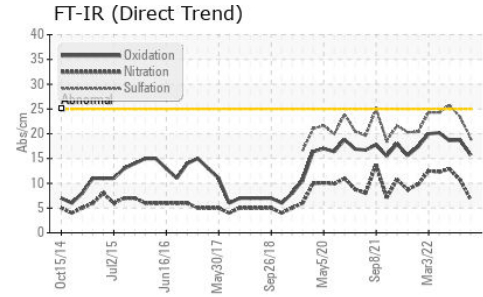
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	<b>3</b>	5	0
Sodium	ppm	ASTM D5185m		<b>4</b>	10	13
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	16	8

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		<b>0</b>	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.7</b>	10.7	12.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.1</b>	23.4	25.8

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.7</b>	18.7	18.6
Base Number (BN)	mg KOH/g	ASTM D2896	6.1	<b>8.1</b>	6.6	6.2



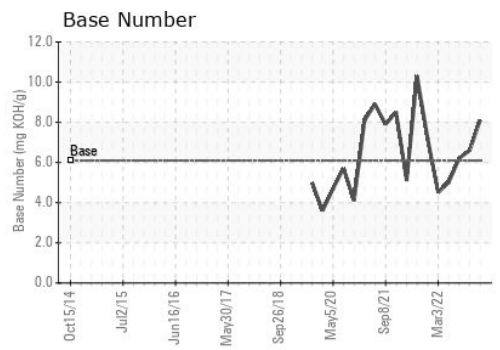
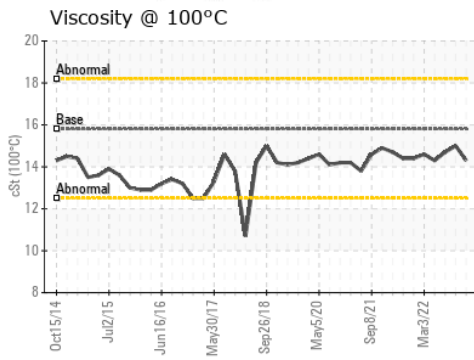
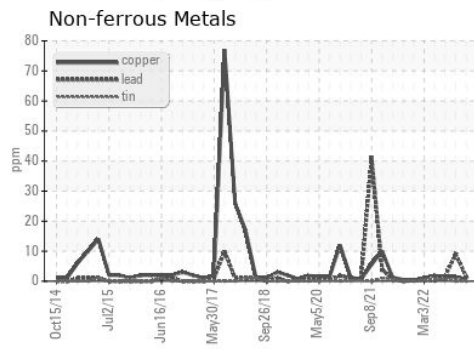
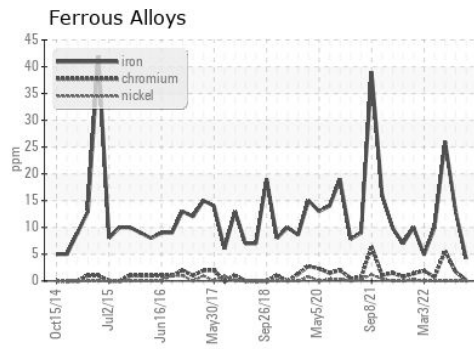
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.8	<b>14.3</b>	15.0	14.7

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0123412      **Received** : 20 Jun 2024  
**Lab Number** : **06215564**      **Tested** : 21 Jun 2024  
**Unique Number** : 11088428      **Diagnosed** : 21 Jun 2024 - Wes Davis  
**Test Package** : FLEET

**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)      F: (910)253-4179