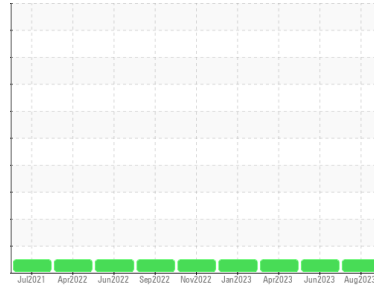




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**940008-192501**  
 Component  
**Natural Gas Engine**  
 Fluid  
**CHEVRON 400 SNG 15W40 (--- LTR)**

## 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>GFL0088467</b>	GFL0073233	GFL0073236
Sample Date	Client Info		<b>23 Aug 2023</b>	12 Jun 2023	03 Apr 2023
Machine Age	hrs	Client Info	<b>10679</b>	10083	9531
Oil Age	hrs	Client Info	<b>650</b>	650	650
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>22</b>	7	12
Chromium	ppm	ASTM D5185m >5	<b>1</b>	0	<1
Nickel	ppm	ASTM D5185m >4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m >5	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>6</b>	<1	1
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	0	2
Copper	ppm	ASTM D5185m >150	<b>&lt;1</b>	<1	0
Tin	ppm	ASTM D5185m >4	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>23</b>	8	11
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>72</b>	58	80
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>619</b>	910	642
Calcium	ppm	ASTM D5185m	<b>1899</b>	1155	1595
Phosphorus	ppm	ASTM D5185m	<b>862</b>	1012	744
Zinc	ppm	ASTM D5185m	<b>1100</b>	1289	1037
Sulfur	ppm	ASTM D5185m	<b>3226</b>	3817	2811

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>9</b>	2	5
Sodium	ppm	ASTM D5185m	<b>5</b>	2	<1
Potassium	ppm	ASTM D5185m >20	<b>0</b>	2	0

## INFRA-RED

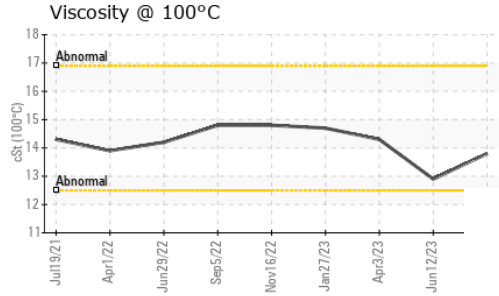
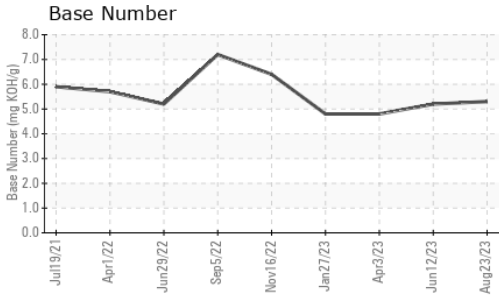
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0.1</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624 >20	<b>10.5</b>	10.1	11.4
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>23.2</b>	23.2	23.8

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>19.0</b>	19.4	19.0
Base Number (BN)	mg KOH/g	ASTM D2896	<b>5.3</b>	5.2	4.8



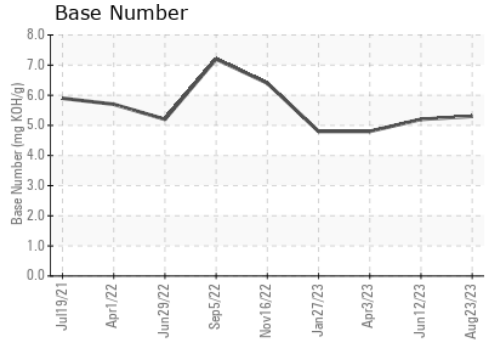
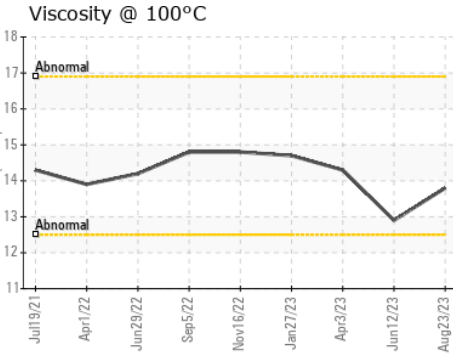
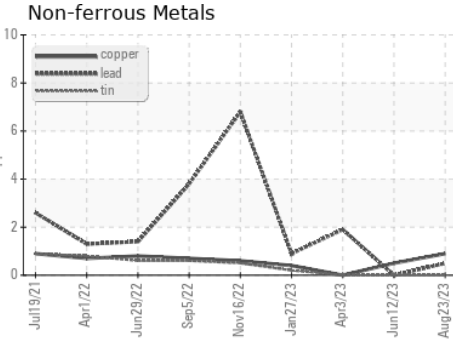
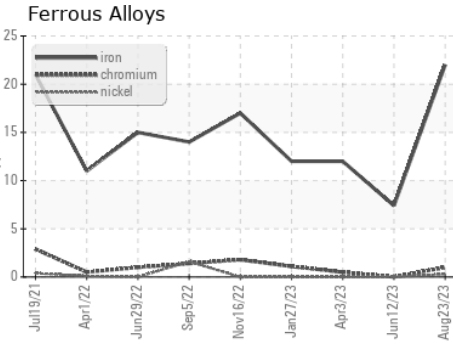
# OIL ANALYSIS REPORT



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	<b>13.8</b>	12.9	14.3

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0088467 **Received** : 28 Aug 2023  
**Lab Number** : **05936009** **Diagnosed** : 28 Aug 2023  
**Unique Number** : 10621280 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 146 - Augusta**  
 1064 Franke Industrial  
 Augusta, GA  
 US 30909  
 Contact: JEFFERY WASHINGTON  
 jeff.washington@gflenv.com  
 T:  
 F:

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)