



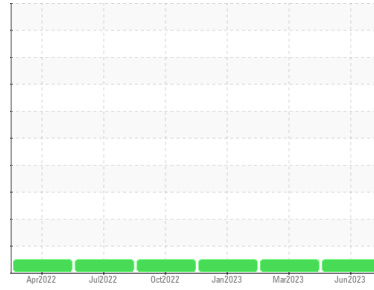
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**946010-152516**  
 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	history 1	history 2
Sample Number	Client Info	<b>GFL0073227</b>	GFL0040927	GFL0040929
Sample Date	Client Info	<b>27 Jun 2023</b>	17 Mar 2023	03 Jan 2023
Machine Age	hrs	<b>19350</b>	18777	753
Oil Age	hrs	<b>650</b>	650	17679
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history 1	history 2	
Iron	ppm	ASTM D5185m >45	<b>7</b>	4	6
Chromium	ppm	ASTM D5185m >4	<b>2</b>	<1	<1
Nickel	ppm	ASTM D5185m >4	<b>1</b>	<1	0
Titanium	ppm	ASTM D5185m >5	<b>2</b>	0	0
Silver	ppm	ASTM D5185m >3	<b>1</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>4</b>	2	1
Lead	ppm	ASTM D5185m >45	<b>6</b>	0	<1
Copper	ppm	ASTM D5185m >175	<b>3</b>	<1	<1
Tin	ppm	ASTM D5185m >4	<b>2</b>	0	<1
Vanadium	ppm	ASTM D5185m	<b>1</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>2</b>	0	0

## ADDITIVES

method	limit/base	current	history 1	history 2	
Boron	ppm	ASTM D5185m	<b>35</b>	42	36
Barium	ppm	ASTM D5185m	<b>19</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>45</b>	62	66
Manganese	ppm	ASTM D5185m	<b>2</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>405</b>	523	587
Calcium	ppm	ASTM D5185m	<b>1100</b>	1409	1509
Phosphorus	ppm	ASTM D5185m	<b>556</b>	700	779
Zinc	ppm	ASTM D5185m	<b>681</b>	867	909
Sulfur	ppm	ASTM D5185m	<b>2134</b>	2306	2981

## CONTAMINANTS

method	limit/base	current	history 1	history 2	
Silicon	ppm	ASTM D5185m >25	<b>5</b>	4	3
Sodium	ppm	ASTM D5185m	<b>4</b>	2	1
Potassium	ppm	ASTM D5185m >20	<b>7</b>	1	0

## INFRA-RED

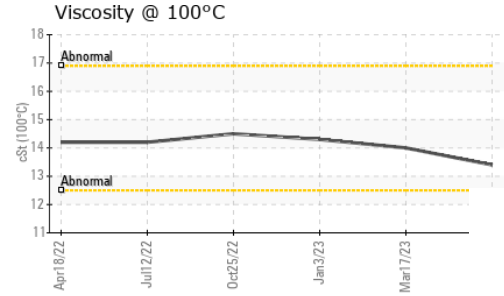
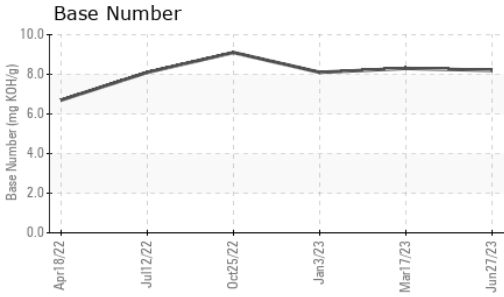
method	limit/base	current	history 1	history 2	
Soot %	%	*ASTM D7844	<b>0.1</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624 >20	<b>7.2</b>	6.3	7.5
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>18.6</b>	18.3	18.3

## FLUID DEGRADATION

method	limit/base	current	history 1	history 2	
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>14.9</b>	14.1	14.6
Base Number (BN)	mg KOH/g	ASTM D2896	<b>8.2</b>	8.3	8.1



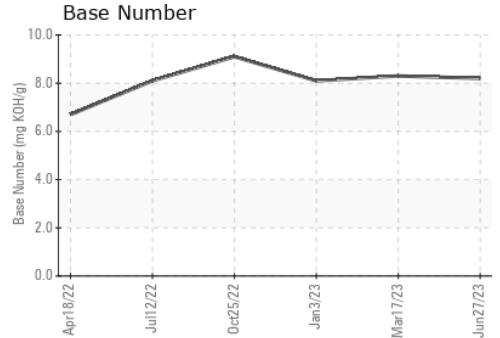
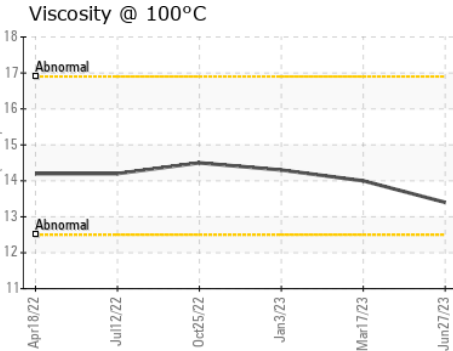
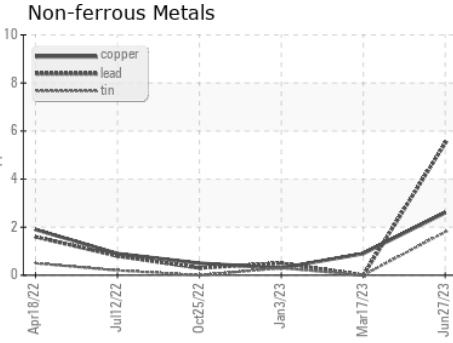
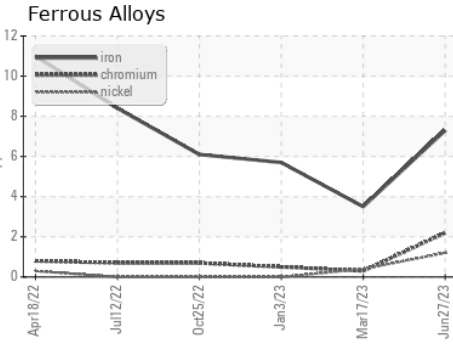
# OIL ANALYSIS REPORT



PARAMETER	method	limit/base	current	history 1	history 2
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	history 1	history 2
Visc @ 100°C	cSt	ASTM D445	<b>13.4</b>	14.0	14.3

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0073227 **Received** : 03 Jul 2023  
**Lab Number** : **05888802** **Diagnosed** : 05 Jul 2023  
**Unique Number** : 10539285 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

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