

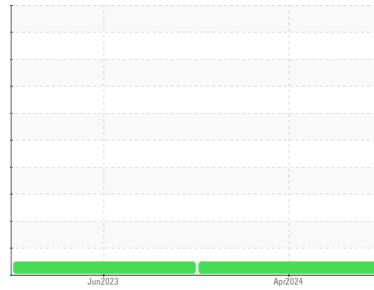


# OIL ANALYSIS REPORT



Machine Id  
**426119**  
 Component  
**Diesel Engine**  
 Fluid  
**CHEVRON DELO 400 SDE SAE 15W40 (--- GAL)**

### Sample Rating Trend



**NORMAL**



## 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>GFL0095347</b>	GFL0052977	---
Sample Date	Client Info		<b>15 Apr 2024</b>	07 Jun 2023	---
Machine Age	hrs	Client Info	<b>19997</b>	19850	---
Oil Age	hrs	Client Info	<b>147</b>	999	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	<1.0	---
Water	WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol	WC Method		<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >120	<b>13</b>	49	---
Chromium	ppm	ASTM D5185m >20	<b>1</b>	<1	---
Nickel	ppm	ASTM D5185m >5	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >20	<b>3</b>	0	---
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m >330	<b>2</b>	<1	---
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>9</b>	3	---
Barium	ppm	ASTM D5185m	<b>&lt;1</b>	2	---
Molybdenum	ppm	ASTM D5185m	<b>56</b>	37	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	<b>882</b>	539	---
Calcium	ppm	ASTM D5185m	<b>1107</b>	1505	---
Phosphorus	ppm	ASTM D5185m 760	<b>989</b>	939	---
Zinc	ppm	ASTM D5185m 800	<b>1195</b>	1113	---
Sulfur	ppm	ASTM D5185m 3000	<b>3159</b>	3465	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>4</b>	3	---
Sodium	ppm	ASTM D5185m	<b>2</b>	0	---
Potassium	ppm	ASTM D5185m >20	<b>2</b>	1	---

## INFRA-RED

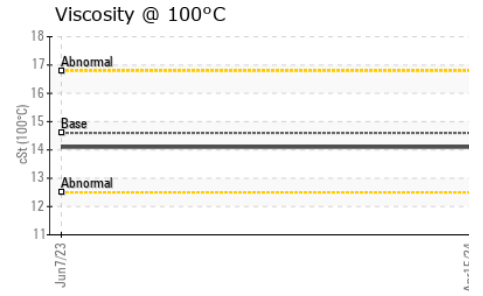
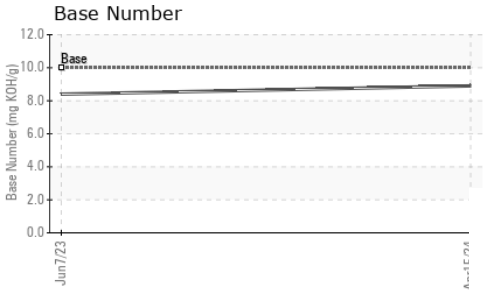
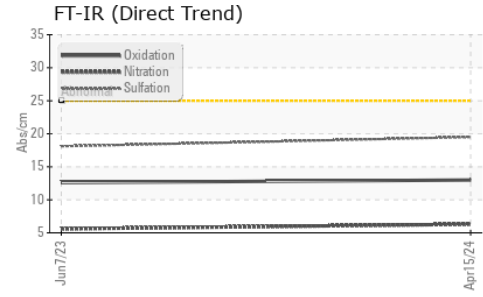
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >4	<b>1.4</b>	0.8	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>6.3</b>	5.6	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>19.5</b>	18.1	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>13.0</b>	12.6	---
Base Number (BN)	mg KOH/g	ASTM D2896 10	<b>8.9</b>	8.4	---



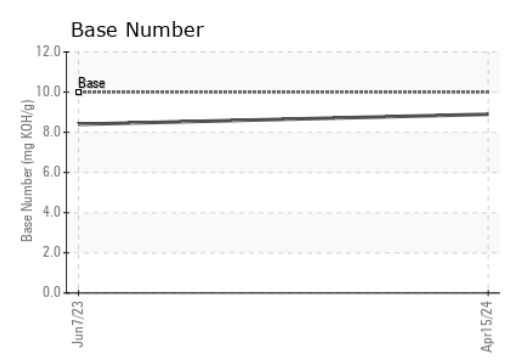
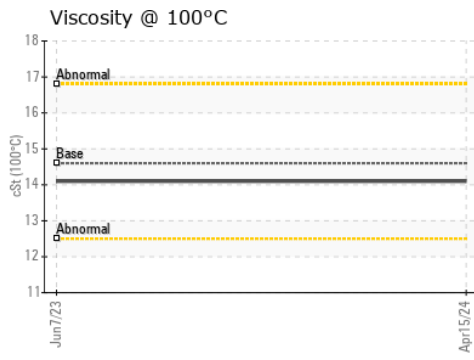
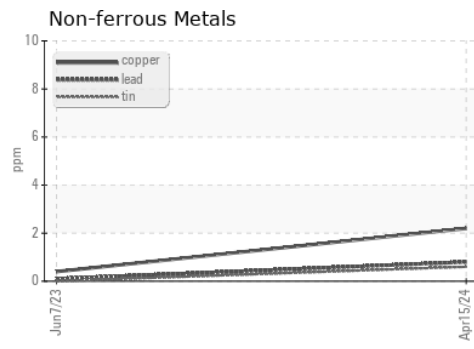
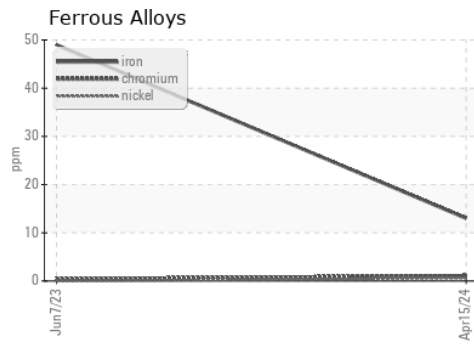
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.6	14.1	---

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0095347      **Received** : 22 Apr 2024  
**Lab Number** : **06156605**      **Tested** : 23 Apr 2024  
**Unique Number** : 10992028      **Diagnosed** : 24 Apr 2024 - Sean Felton  
**Test Package** : FLEET

**GFL Environmental - 930 - Mosinee HC**  
 1372 State Highway 34  
 MOSINEE, WI  
 US 54455  
 Contact: Kirk Koss

To discuss this sample report, please 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)

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