



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**128015-1066**  
 Component  
**Diesel Engine**  
 Fluid  
**CHEVRON DELO 400 XLE 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0124160</b>	GFL0099629	---
Sample Date		Client Info		<b>09 Jul 2024</b>	12 Feb 2024	---
Machine Age	hrs	Client Info		<b>4837</b>	4718	---
Oil Age	hrs	Client Info		<b>0</b>	600	---
Filter Age	hrs	Client Info		<b>0</b>	600	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	<b>11</b>	32	---
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	2	---
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	5	---
Lead	ppm	ASTM D5185m	>45	<b>0</b>	1	---
Copper	ppm	ASTM D5185m	>85	<b>2</b>	4	---
Tin	ppm	ASTM D5185m	>4	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

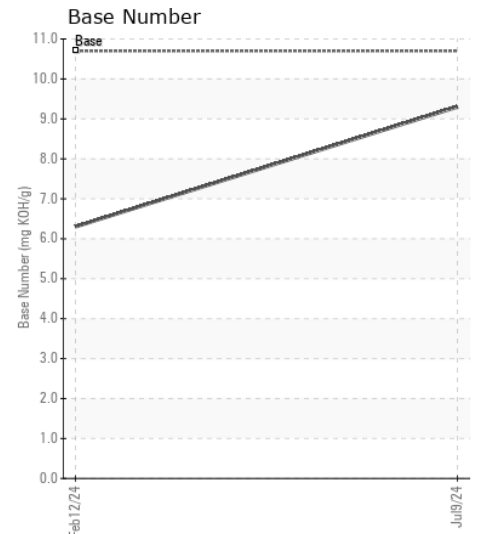
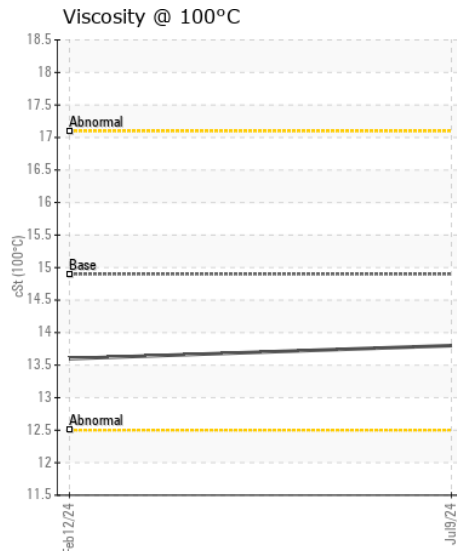
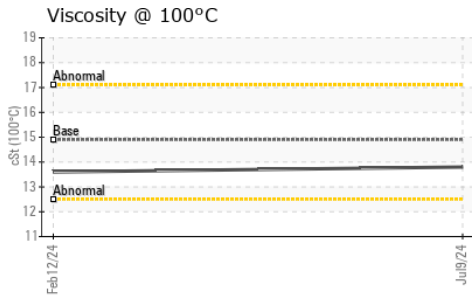
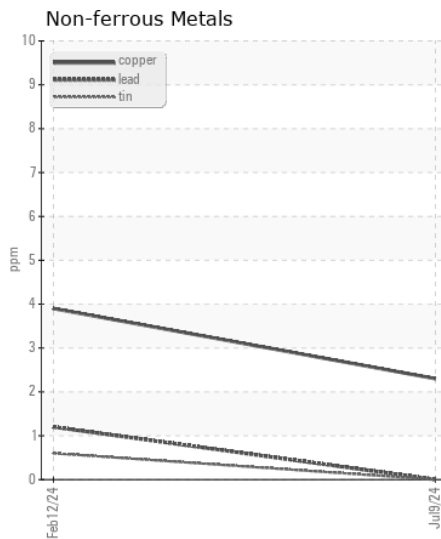
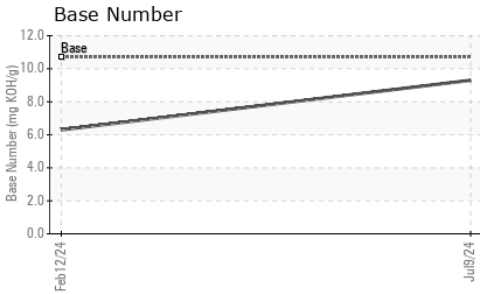
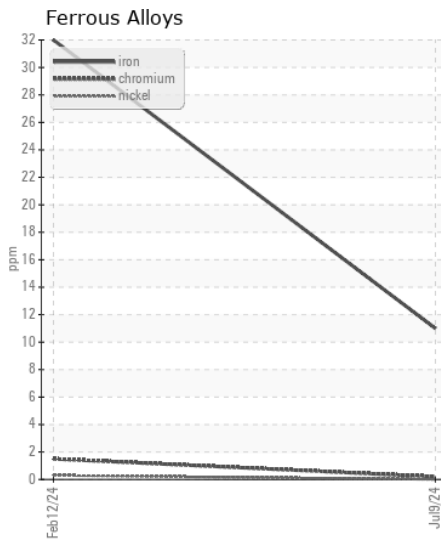
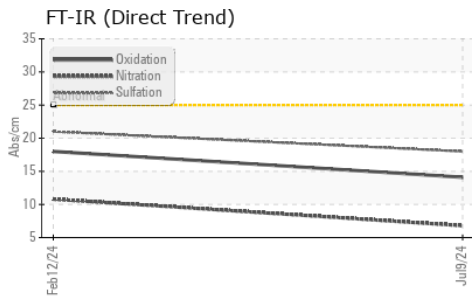
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>3</b>	4	---
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	4	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.8</b>	10.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.0</b>	21.0	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	---

**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.

Sodium	ppm	ASTM D5185m		<b>2</b>	<1	---
Boron	ppm	ASTM D5185m		<b>8</b>	7	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>59</b>	61	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>937</b>	915	---
Calcium	ppm	ASTM D5185m		<b>1108</b>	1256	---
Phosphorus	ppm	ASTM D5185m	760	<b>1010</b>	1027	---
Zinc	ppm	ASTM D5185m	830	<b>1200</b>	1248	---
Sulfur	ppm	ASTM D5185m	2770	<b>3490</b>	3012	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.1</b>	18.0	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	<b>9.3</b>	6.3	---
Visc @ 100°C	cSt	ASTM D445	14.9	<b>13.8</b>	13.6	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0124160  
**Lab Number** : 06235499  
**Unique Number** : 11124333  
**Test Package** : FLEET

**Received** : 15 Jul 2024  
**Tested** : 15 Jul 2024  
**Diagnosed** : 16 Jul 2024 - Don Baldrige

**GFL Environmental - 633 - Grand Haven**  
 1680 Peach St  
 Whitehall, MI  
 US 49461  
 Contact: Derek Kater  
 dkater@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: