



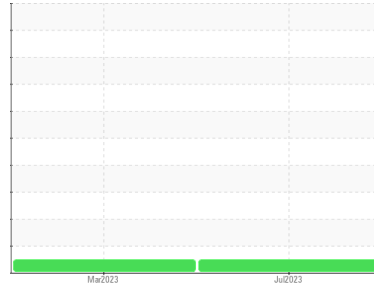
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**MACK 724026**  
 Component  
**Diesel Engine**  
 Fluid  
**CHEVRON 15W40 (--- 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>GFL0079529</b>	GFL0076858	---
Sample Date	Client Info		<b>08 Jul 2023</b>	20 Mar 2023	---
Machine Age	hrs	Client Info	<b>39309</b>	38715	---
Oil Age	hrs	Client Info	<b>39309</b>	38715	---
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	---
Glycol	WC Method		<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >120	<b>10</b>	4	---
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m >5	<b>0</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>4</b>	3	---
Lead	ppm	ASTM D5185m >40	<b>2</b>	0	---
Copper	ppm	ASTM D5185m >330	<b>3</b>	2	---
Tin	ppm	ASTM D5185m >15	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>265</b>	325	---
Barium	ppm	ASTM D5185m	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	<b>120</b>	110	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	1	---
Magnesium	ppm	ASTM D5185m	<b>565</b>	618	---
Calcium	ppm	ASTM D5185m	<b>1420</b>	1546	---
Phosphorus	ppm	ASTM D5185m	<b>669</b>	671	---
Zinc	ppm	ASTM D5185m	<b>780</b>	819	---
Sulfur	ppm	ASTM D5185m	<b>2441</b>	2615	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>4</b>	6	---
Sodium	ppm	ASTM D5185m >50	<b>0</b>	1	---
Potassium	ppm	ASTM D5185m >20	<b>1</b>	2	---

## INFRA-RED

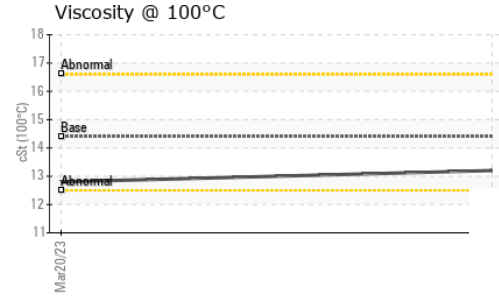
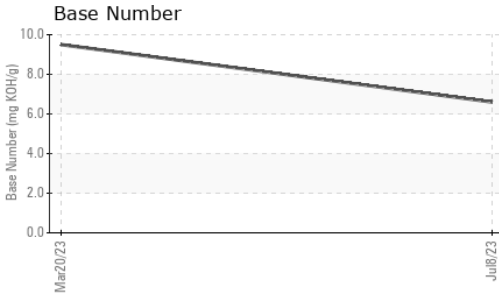
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >4	<b>1.4</b>	0.3	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>7.6</b>	6.3	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>23.0</b>	22.6	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>16.4</b>	15.6	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>6.6</b>	9.5	---



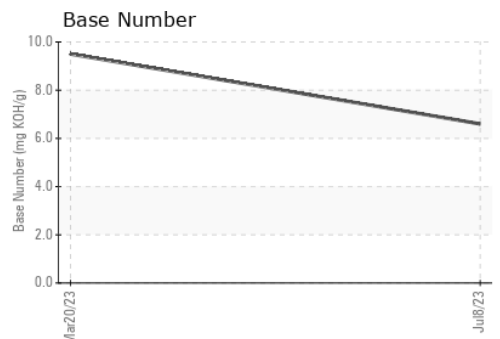
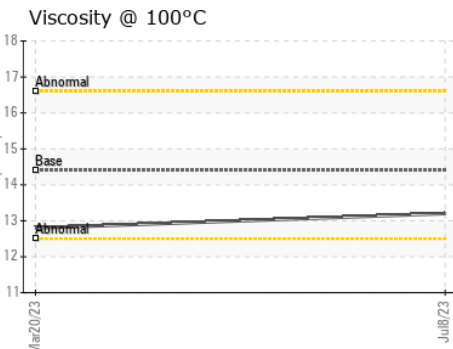
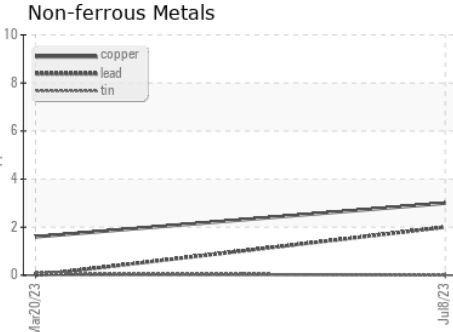
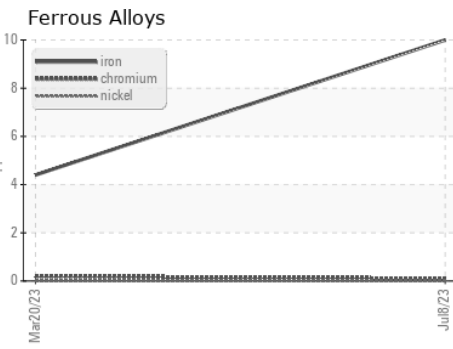
# OIL ANALYSIS REPORT



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	14.4	13.2	12.8

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0079529 **Received** : 13 Jul 2023  
**Lab Number** : 05897921 **Diagnosed** : 14 Jul 2023  
**Unique Number** : 10559277 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 409 - Wood Island LF**  
 E10081 State Hwy M28  
 Wetmore, MI  
 US 49895  
 Contact: Service Manager

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: