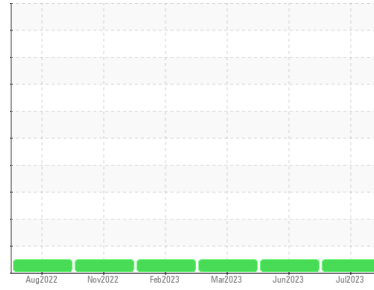




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**721042**  
Component  
**Diesel Engine**  
Fluid  
**MOBIL 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>GFL0066187</b>	GFL0066200	GFL0060362
Sample Date	Client Info		<b>21 Jul 2023</b>	03 Jun 2023	23 Mar 2023
Machine Age	mls	Client Info	<b>256602</b>	256602	500
Oil Age	mls	Client Info	<b>256602</b>	256602	500
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >80	<b>43</b>	60	23
Chromium	ppm	ASTM D5185m >5	<b>2</b>	2	<1
Nickel	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >30	<b>&lt;1</b>	2	2
Lead	ppm	ASTM D5185m >30	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >150	<b>1</b>	0	0
Tin	ppm	ASTM D5185m >5	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>5</b>	9	19
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>60</b>	63	57
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	<b>1007</b>	987	797
Calcium	ppm	ASTM D5185m	<b>1163</b>	1120	1061
Phosphorus	ppm	ASTM D5185m	<b>1008</b>	1021	860
Zinc	ppm	ASTM D5185m	<b>1273</b>	1302	1032
Sulfur	ppm	ASTM D5185m	<b>3440</b>	3460	2588

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>5</b>	5	4
Sodium	ppm	ASTM D5185m >118	<b>3</b>	2	1
Potassium	ppm	ASTM D5185m >20	<b>1</b>	0	0

## INFRA-RED

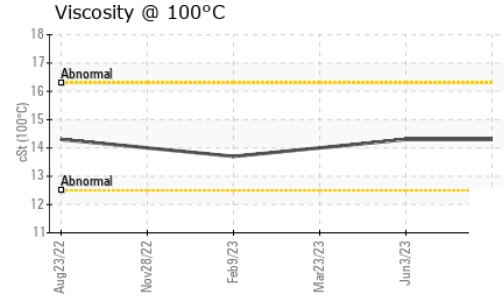
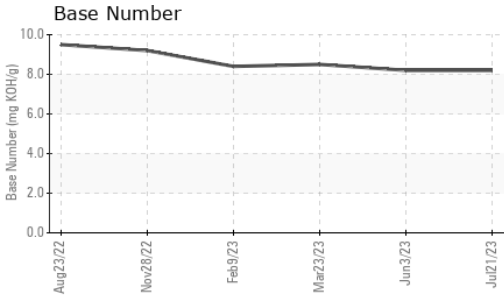
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.4</b>	0.3	0.1
Nitration	Abs/cm	*ASTM D7624 >20	<b>7.6</b>	7.5	6.2
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>19.1</b>	19.6	18.9

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>15.2</b>	16.5	14.2
Base Number (BN)	mg KOH/g	ASTM D2896	<b>8.2</b>	8.2	8.5



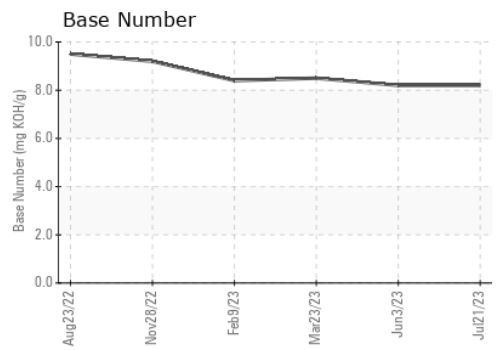
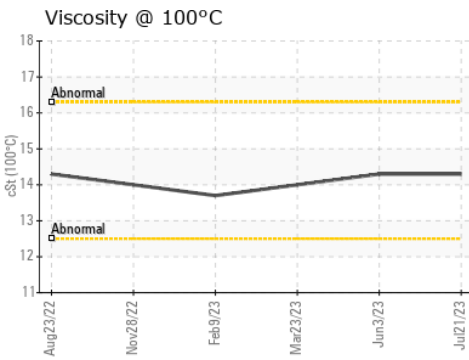
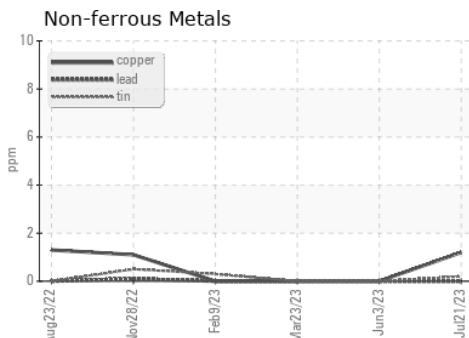
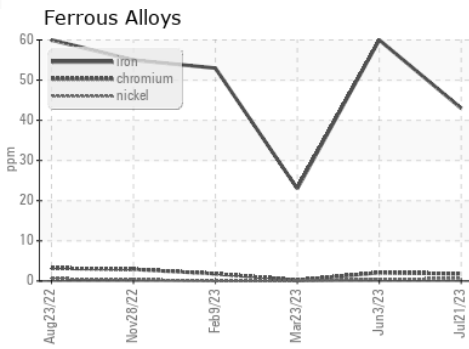
# OIL ANALYSIS REPORT



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	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	<b>14.3</b>	14.3	14.0

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0066187 **Received** : 08 Aug 2023  
**Lab Number** : 05918344 **Diagnosed** : 08 Aug 2023  
**Unique Number** : 10590258 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 904C - Eau Claire**  
 3010 MONDOVI RD  
 EAU CLAIRE, WI  
 US 54701  
 Contact: ANDY KANE

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: (715)202-3420

F: