



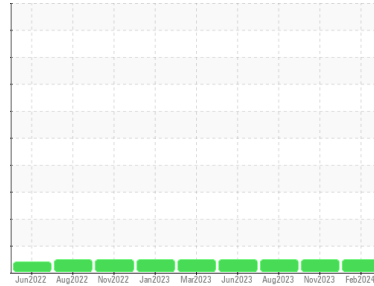
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**912083**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (10 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 acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0088461</b>	GFL0073224	GFL0088474
Sample Date	Client Info		<b>06 Feb 2024</b>	16 Nov 2023	30 Aug 2023
Machine Age	hrs	Client Info	<b>5384</b>	4842	4293
Oil Age	hrs	Client Info	<b>600</b>	650	650
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	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >120	<b>5</b>	<1	14
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m >5	<b>1</b>	0	<1
Titanium	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>2</b>	2	3
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m >330	<b>1</b>	<1	4
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>162</b>	471	247
Barium	ppm	ASTM D5185m 0	<b>13</b>	0	0
Molybdenum	ppm	ASTM D5185m 0	<b>4</b>	79	88
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 0	<b>21</b>	383	453
Calcium	ppm	ASTM D5185m	<b>1855</b>	1381	1627
Phosphorus	ppm	ASTM D5185m	<b>881</b>	1082	1050
Zinc	ppm	ASTM D5185m	<b>1058</b>	1300	1333
Sulfur	ppm	ASTM D5185m	<b>3308</b>	3393	3568

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>4</b>	5	9
Sodium	ppm	ASTM D5185m	<b>0</b>	<1	3
Potassium	ppm	ASTM D5185m >20	<b>8</b>	1	0

## INFRA-RED

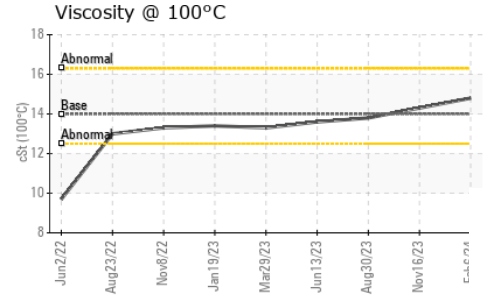
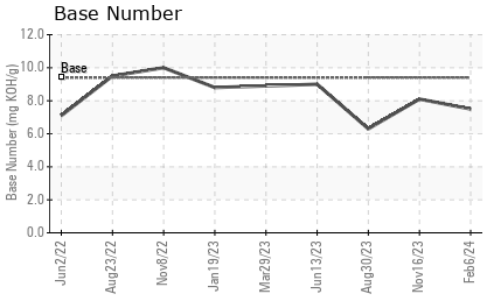
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >4	<b>0.3</b>	0.1	0.7
Nitration	Abs/cm	*ASTM D7624 >20	<b>6.5</b>	4.8	8.0
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>20.8</b>	20.3	22.8

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>16.4</b>	13.9	16.8
Base Number (BN)	mg KOH/g	ASTM D2896 9.4	<b>7.5</b>	8.1	6.3



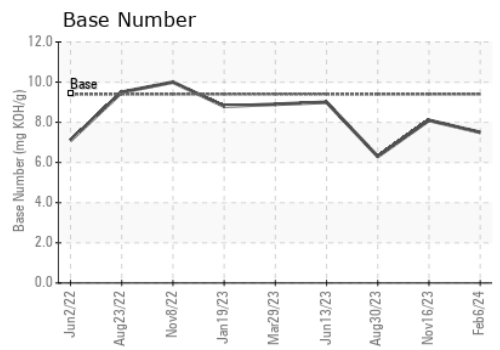
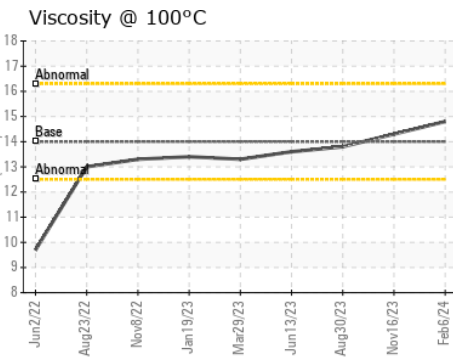
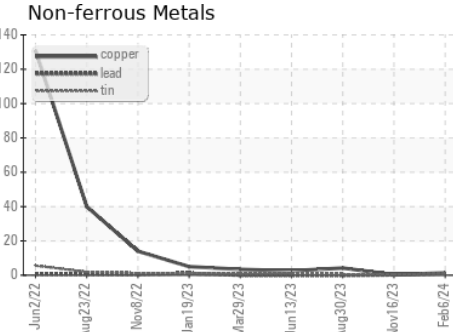
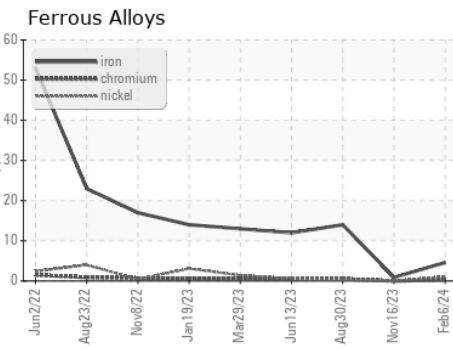
# OIL ANALYSIS REPORT



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 14	<b>14.8</b>	14.3	13.8

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0088461  
**Lab Number** : 06085664  
**Unique Number** : 10873109  
**Test Package** : FLEET  
**Received** : 12 Feb 2024  
**Tested** : 12 Feb 2024  
**Diagnosed** : 13 Feb 2024 - Angela Borella

**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)