

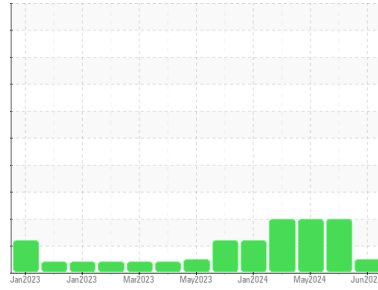


# OIL ANALYSIS REPORT



Area  
**(62A0X0D) TALLASSEE**  
 Machine Id  
**425027-345507**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC 1300 SUPER 15W40 (--- LTR)**

Sample Rating Trend



**NORMAL**

## DIAGNOSIS

- Recommendation**  
Resample at the next service interval to monitor.
- Wear**  
All component wear rates are normal.
- Contamination**  
Fuel content negligible. 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>GFL0081928</b>	GFL0080687	GFL0088605
Sample Date	Client Info		<b>20 Jun 2024</b>	28 May 2024	20 May 2024
Machine Age	hrs	Client Info	<b>18301</b>	18203	13106
Oil Age	hrs	Client Info	<b>1732</b>	1634	13106
Oil Changed	Client Info		<b>N/A</b>	Not Changd	Not Changd
Sample Status			<b>NORMAL</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
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>16</b>	39	38
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m >5	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>12</b>	▲ 24	▲ 24
Lead	ppm	ASTM D5185m >40	<b>1</b>	<1	1
Copper	ppm	ASTM D5185m >330	<b>3</b>	6	7
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>3</b>	3	4
Barium	ppm	ASTM D5185m 0	<b>1</b>	0	0
Molybdenum	ppm	ASTM D5185m 0	<b>59</b>	65	68
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	0	1
Magnesium	ppm	ASTM D5185m 0	<b>898</b>	797	834
Calcium	ppm	ASTM D5185m	<b>1071</b>	1109	1104
Phosphorus	ppm	ASTM D5185m	<b>1139</b>	861	897
Zinc	ppm	ASTM D5185m	<b>1235</b>	1117	1111
Sulfur	ppm	ASTM D5185m	<b>3143</b>	2951	2969

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>9</b>	13	13
Sodium	ppm	ASTM D5185m	<b>2</b>	10	7
Potassium	ppm	ASTM D5185m >20	<b>3</b>	11	1
Fuel	%	ASTM D3524 >3.0	<b>1.7</b>	▲ 4.1	▲ 3.9

## INFRA-RED

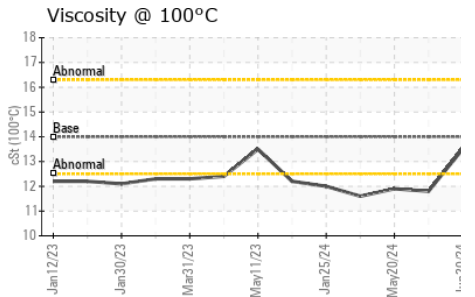
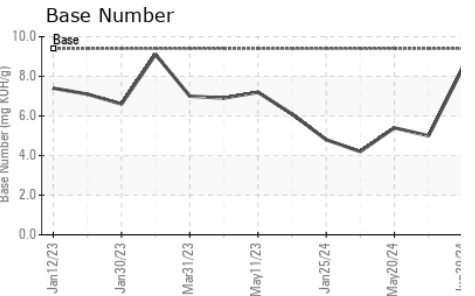
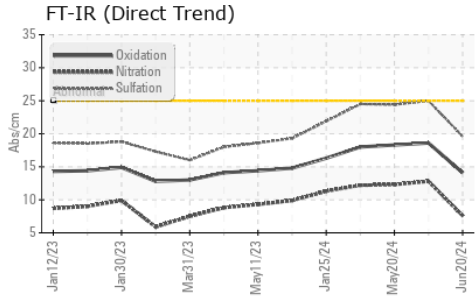
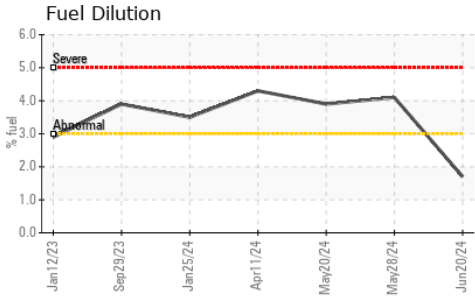
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >4	<b>0.6</b>	1.5	1.4
Nitration	Abs/cm	*ASTM D7624 >20	<b>7.6</b>	12.8	12.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>19.6</b>	25.0	24.4

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>14.1</b>	18.6	18.3
Base Number (BN)	mg KOH/g	ASTM D2896 9.4	<b>8.4</b>	5.0	5.4



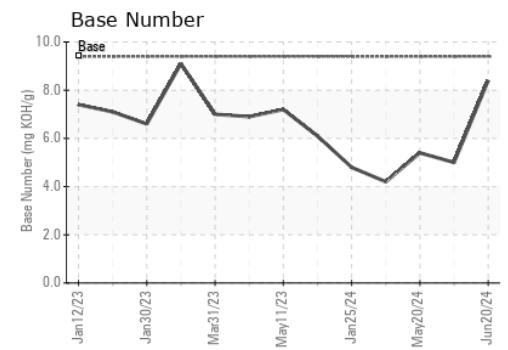
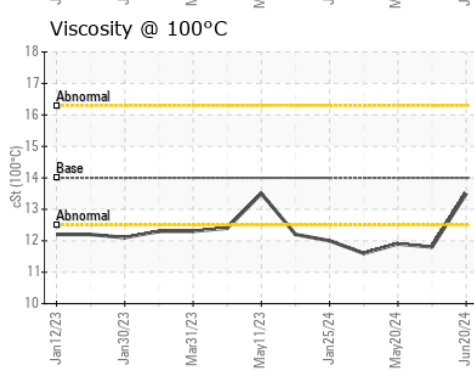
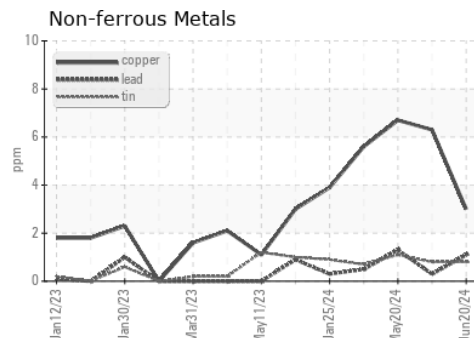
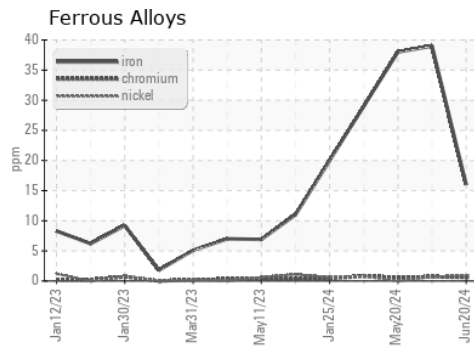
# OIL ANALYSIS REPORT



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	13.5	▲ 11.8 ▲ 11.9

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0081928 **Received** : 25 Jun 2024  
**Lab Number** : 06219287 **Tested** : 27 Jun 2024  
**Unique Number** : 11097484 **Diagnosed** : 27 Jun 2024 - Don Baldrige  
**Test Package** : FLEET ( Additional Tests: PercentFuel )

GFL Environmental - 172 - Montgomery-Alexander City-Tallahassee  
 Multiple Sites  
 Montgomery, AL  
 US 36108  
 Contact: RICHARD HATFIELD  
 rhatfield@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)