



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

Machine Id  
**10529**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 15W40 (11 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0122656</b>	GFL0103423	GFL0074616
Sample Date		Client Info		<b>26 May 2024</b>	03 Mar 2024	12 Jan 2024
Machine Age	hrs	Client Info		<b>24688</b>	23585	23280
Oil Age	hrs	Client Info		<b>593</b>	0	192
Filter Age	hrs	Client Info		<b>593</b>	0	192
Oil Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	<b>44</b>	53	26
Chromium	ppm	ASTM D5185m	>5	<b>1</b>	2	<1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>15	<b>5</b>	6	3
Lead	ppm	ASTM D5185m	>25	<b>2</b>	2	2
Copper	ppm	ASTM D5185m	>100	<b>30</b>	48	9
Tin	ppm	ASTM D5185m	>4	<b>1</b>	1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

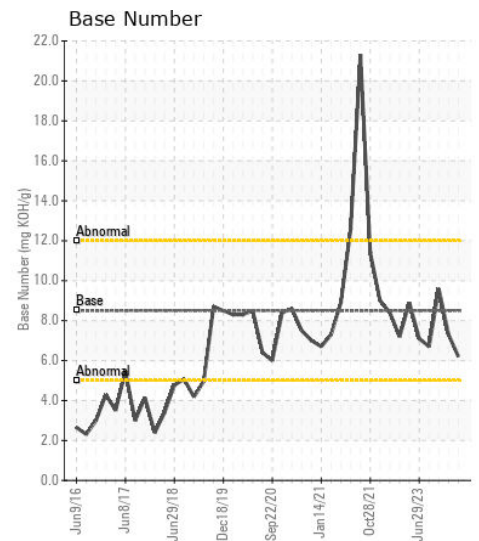
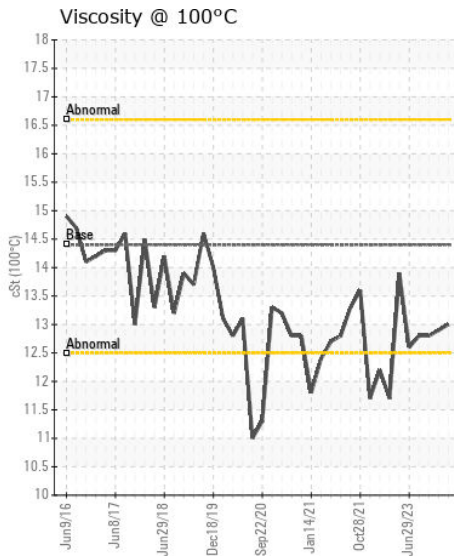
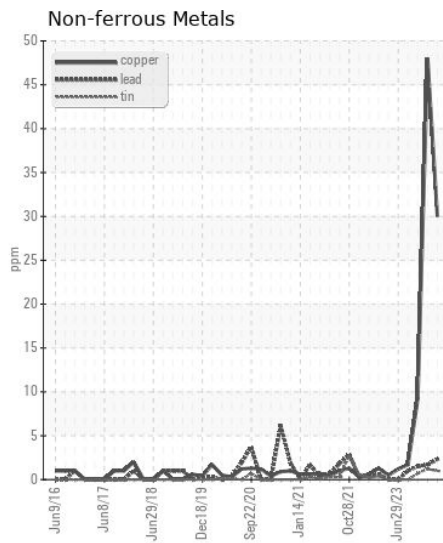
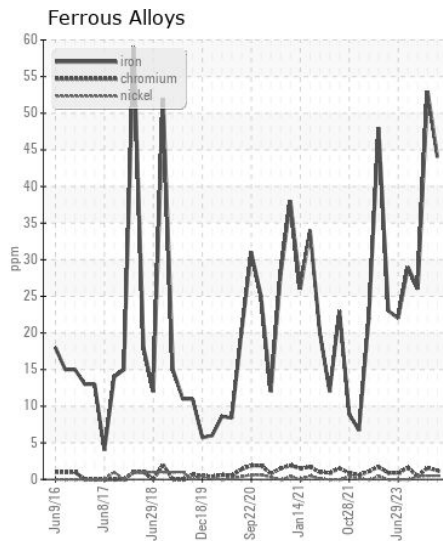
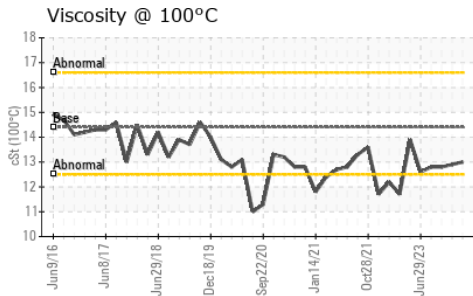
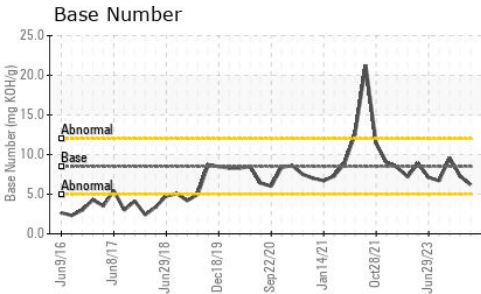
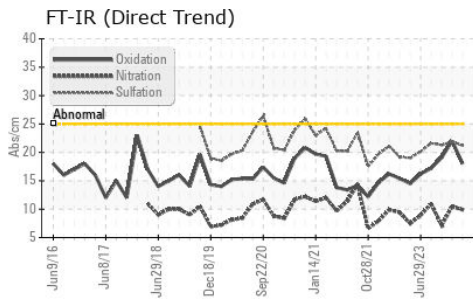
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>12</b>	23	20
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	4	2
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
Soot %	%	*ASTM D7844	>6	<b>0.7</b>	0.5	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.9</b>	10.5	7.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.2</b>	21.9	21.3
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	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	>158	<b>8</b>	6	5
Boron	ppm	ASTM D5185m	250	<b>9</b>	34	59
Barium	ppm	ASTM D5185m	10	<b>0</b>	3	2
Molybdenum	ppm	ASTM D5185m	100	<b>63</b>	57	56
Manganese	ppm	ASTM D5185m		<b>2</b>	3	2
Magnesium	ppm	ASTM D5185m	450	<b>840</b>	520	536
Calcium	ppm	ASTM D5185m	3000	<b>1145</b>	1565	1531
Phosphorus	ppm	ASTM D5185m	1150	<b>900</b>	749	788
Zinc	ppm	ASTM D5185m	1350	<b>1119</b>	930	908
Sulfur	ppm	ASTM D5185m	4250	<b>2933</b>	2719	2722
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.0</b>	22.0	19.1
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>6.2</b>	7.3	9.6
Visc @ 100°C	cSt	ASTM D445	14.4	<b>13.0</b>	12.9	12.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0122656  
**Lab Number** : 06193710  
**Unique Number** : 11050462  
**Test Package** : FLEET

**Received** : 29 May 2024  
**Tested** : 30 May 2024  
**Diagnosed** : 30 May 2024 - Wes Davis

**GFL Environmental - 095 - Atlanta West**  
 2699 Cochran Industrial Blvd  
 Douglasville, GA  
 US 30127-1332

Contact: Darrell Welch  
 darrell.welch@gflenv.com  
 T: (800)207-6618

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)

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