



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

Machine Id  
**AUTOCAR 813022**  
 Component  
**Diesel Engine**  
 Fluid  
**{not provided} (--- 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>GFL0109108</b>	GFL0086255	GFL0086197
Sample Date		Client Info		<b>15 Jan 2024</b>	27 Dec 2023	23 Oct 2023
Machine Age	hrs	Client Info		<b>1188</b>	1064	714
Oil Age	hrs	Client Info		<b>1188</b>	0	714
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>25</b>	35	59
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>12</b>	16	24
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>330	<b>2</b>	7	15
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

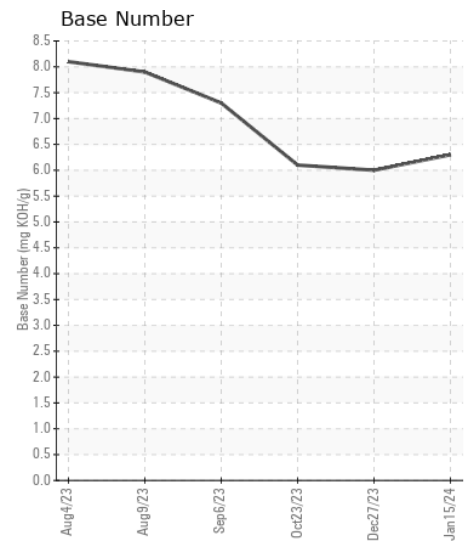
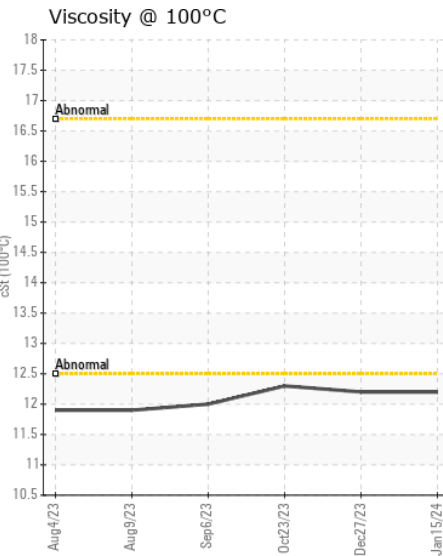
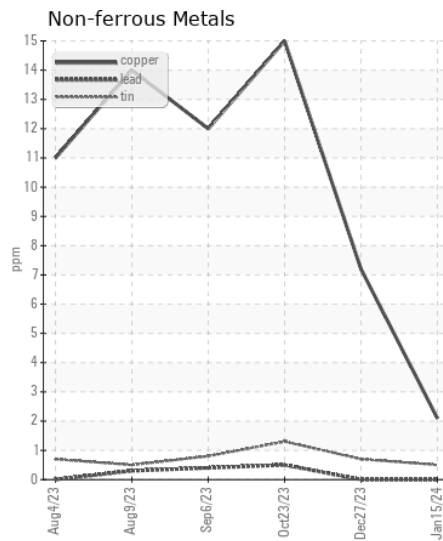
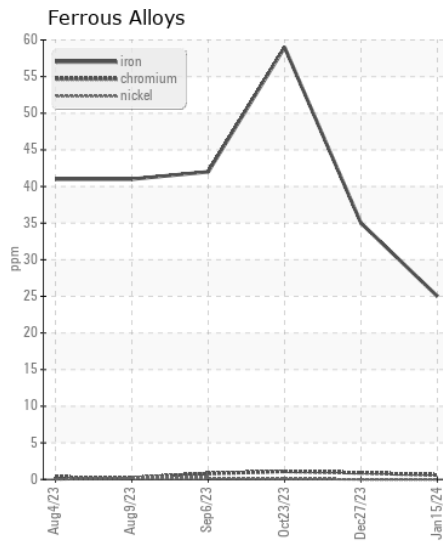
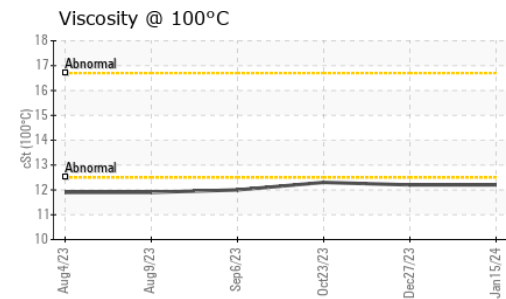
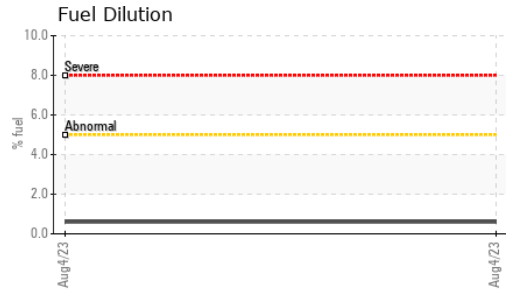
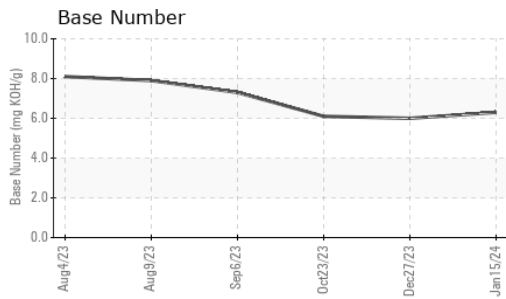
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>5</b>	9	18
Potassium	ppm	ASTM D5185m	>20	<b>28</b>	38	52
Fuel	%	ASTM D3524	>5	<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	>3	<b>0.5</b>	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.6</b>	10.2	12.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.9</b>	20.9	23.3
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		<b>1</b>	3	6
Boron	ppm	ASTM D5185m		<b>16</b>	16	22
Barium	ppm	ASTM D5185m		<b>0</b>	2	0
Molybdenum	ppm	ASTM D5185m		<b>66</b>	56	49
Manganese	ppm	ASTM D5185m		<b>1</b>	3	7
Magnesium	ppm	ASTM D5185m		<b>825</b>	760	830
Calcium	ppm	ASTM D5185m		<b>1260</b>	1233	1237
Phosphorus	ppm	ASTM D5185m		<b>1015</b>	794	693
Zinc	ppm	ASTM D5185m		<b>1252</b>	1067	947
Sulfur	ppm	ASTM D5185m		<b>3071</b>	2516	2137
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.2</b>	18.7	23.5
Base Number (BN)	mg KOH/g	ASTM D2896		<b>6.3</b>	6.0	6.1
Visc @ 100°C	cSt	ASTM D445		<b>12.2</b>	12.2	12.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0109108 **Received** : 19 Jan 2024  
**Lab Number** : 06065443 **Diagnosed** : 22 Jan 2024  
**Unique Number** : 10836825 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET ( Additional Tests: FuelDilution )

**GFL Environmental - 009 - Fairburn**  
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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)