



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

Machine Id  
**8111598**  
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>IL0030992</b>	IL06019329	IL05772468
Sample Date		Client Info		<b>19 Mar 2024</b>	21 Sep 2023	07 Feb 2023
Machine Age	mls	Client Info		<b>387228</b>	343506	296632
Oil Age	mls	Client Info		<b>0</b>	40000	40000
Filter Age	mls	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>11</b>	20	18
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	6	4
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	2	4
Copper	ppm	ASTM D5185m	>330	<b>0</b>	<1	<1
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

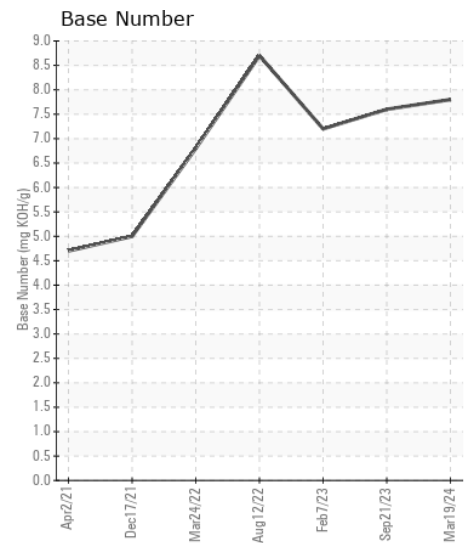
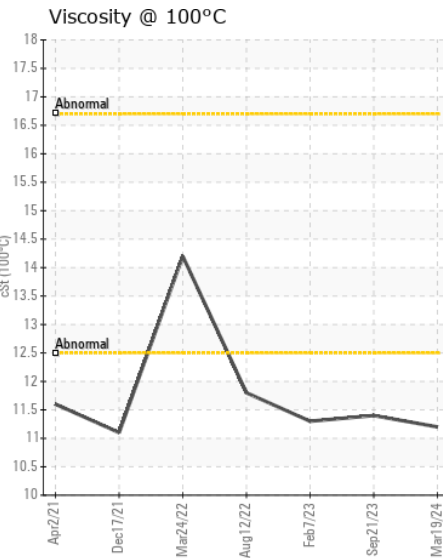
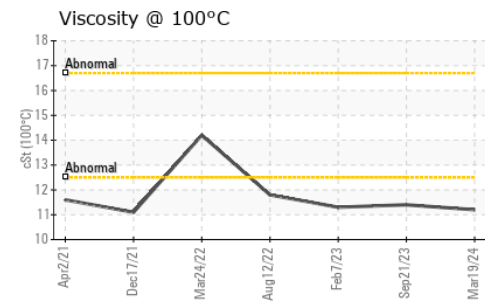
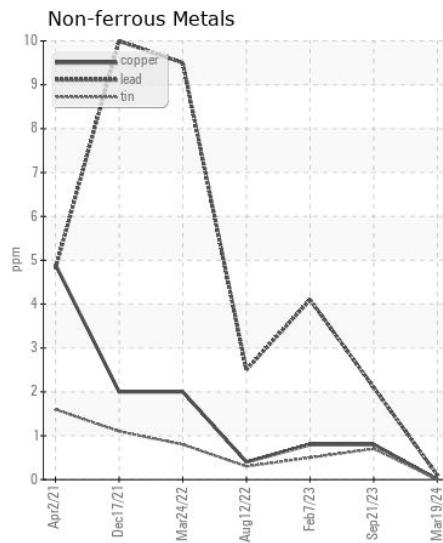
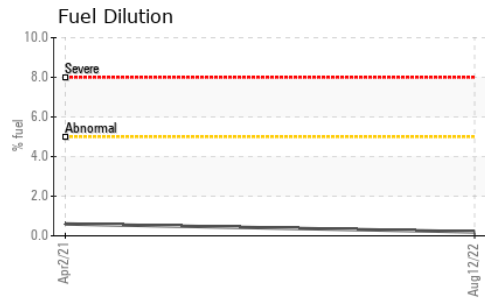
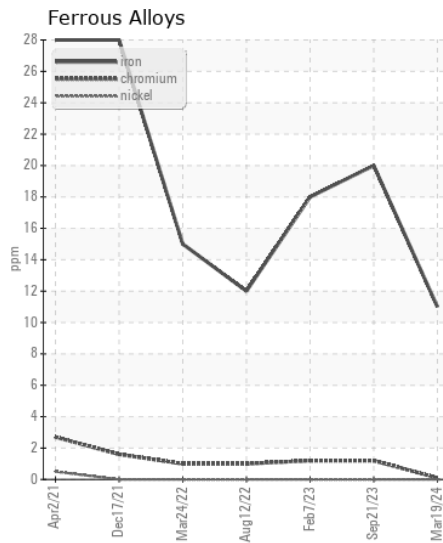
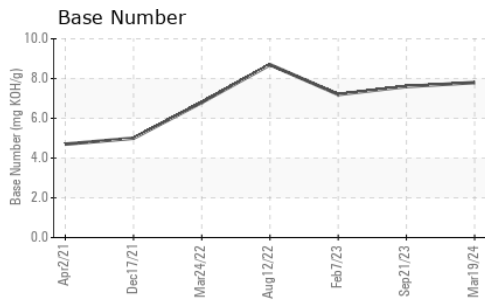
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	10	12
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	11	10
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>	0.7	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.6</b>	11.3	11.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.6</b>	23.5	23.2
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>3</b>	3	0
Boron	ppm	ASTM D5185m		<b>26</b>	16	22
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>42</b>	45	47
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>526</b>	501	476
Calcium	ppm	ASTM D5185m		<b>1784</b>	1741	1615
Phosphorus	ppm	ASTM D5185m		<b>783</b>	784	706
Zinc	ppm	ASTM D5185m		<b>941</b>	907	891
Sulfur	ppm	ASTM D5185m		<b>2753</b>	2247	2373
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>22.3</b>	23.3	23.3
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.8</b>	7.6	7.2
Visc @ 100°C	cSt	ASTM D445		<b>11.2</b>	11.4	11.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : IL0030992 **Received** : 20 Mar 2024  
**Lab Number** : 06123357 **Tested** : 22 Mar 2024  
**Unique Number** : 10937508 **Diagnosed** : 22 Mar 2024 - Sean Felton  
**Test Package** : FLEET ( Additional Tests: FuelDilution, PercentFuel )

**IDEALRELEASE OF ATLANTA - FULTON**  
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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)