



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

Machine Id  
**8819570**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>IL0034868</b>	IL0034827	IL05887761
Sample Date		Client Info		<b>14 Feb 2024</b>	07 Dec 2023	17 May 2023
Machine Age	mls	Client Info		<b>660085</b>	655974	604510
Oil Age	mls	Client Info		<b>0</b>	0	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>	ATTENTION	ATTENTION

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>11</b>	50	28
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	2
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
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>2</b>	3	<1
Lead	ppm	ASTM D5185m	>40	<b>0</b>	4	5
Copper	ppm	ASTM D5185m	>330	<b>2</b>	1	<1
Tin	ppm	ASTM D5185m	>15	<b>0</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

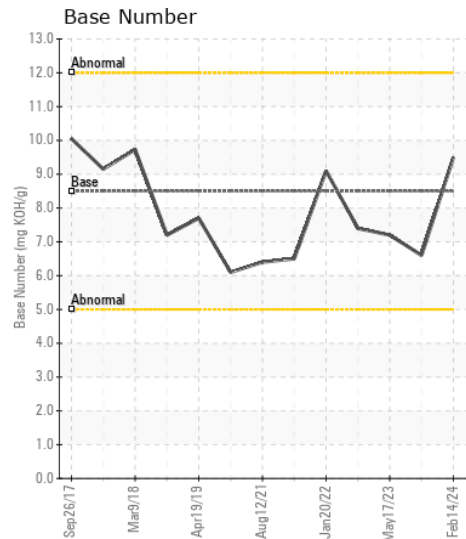
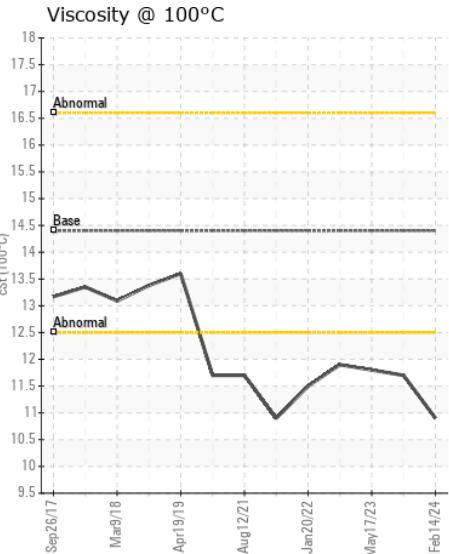
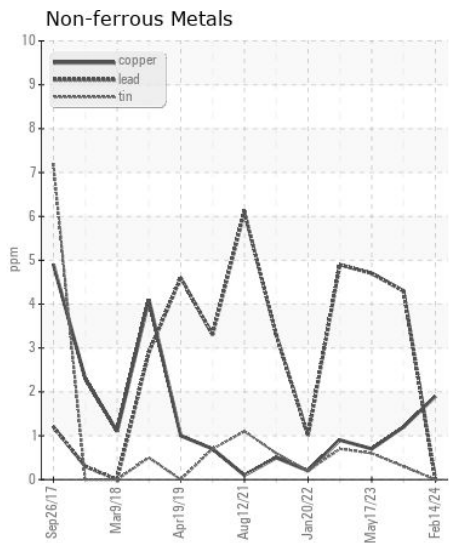
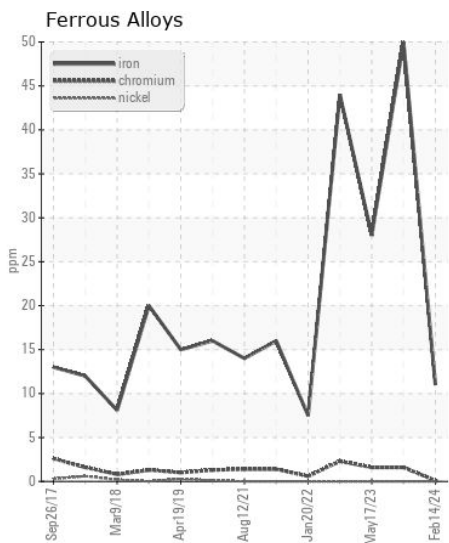
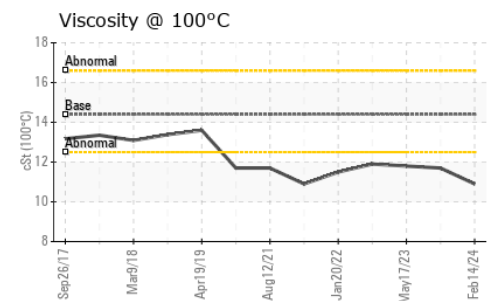
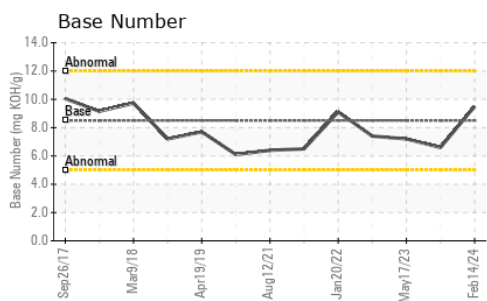
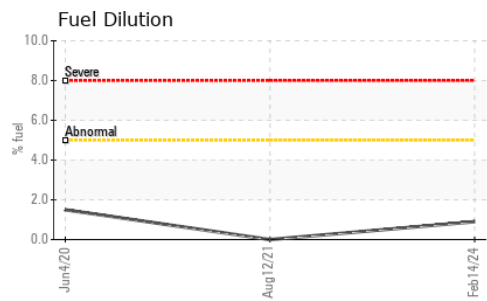
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>7</b>	14	8
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	4	2
Fuel	%	ASTM D3524	>5	<b>0.9</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>0.2</b>	0.9	0.8
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.7</b>	13.1	12.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.0</b>	25.9	25.8
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>0</b>	0	2
Boron	ppm	ASTM D5185m	250	<b>56</b>	22	25
Barium	ppm	ASTM D5185m	10	<b>8</b>	0	0
Molybdenum	ppm	ASTM D5185m	100	<b>41</b>	51	52
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	450	<b>443</b>	554	531
Calcium	ppm	ASTM D5185m	3000	<b>1417</b>	1790	1833
Phosphorus	ppm	ASTM D5185m	1150	<b>722</b>	728	783
Zinc	ppm	ASTM D5185m	1350	<b>803</b>	997	982
Sulfur	ppm	ASTM D5185m	4250	<b>2365</b>	2363	2577
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.0</b>	27.1	26.9
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>9.5</b>	6.6	7.2
Visc @ 100°C	cSt	ASTM D445	14.4	<b>10.9</b>	11.7	11.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : IL0034868 **Received** : 26 Feb 2024  
**Lab Number** : 06100007 **Tested** : 28 Feb 2024  
**Unique Number** : 10898237 **Diagnosed** : 28 Feb 2024 - Jonathan Hester  
**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)