



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id  
**8913733**  
Component  
**Diesel Engine**  
Fluid  
**MOBIL 1 SAE 10W30 (--- GAL)**

### RECOMMENDATION

We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>IL0034907</b>	---	---
Sample Date		Client Info		<b>10 Jan 2024</b>	---	---
Machine Age	mls	Client Info		<b>140788</b>	---	---
Oil Age	mls	Client Info		<b>40000</b>	---	---
Filter Age	mls	Client Info		<b>40000</b>	---	---
Oil Changed		Client Info		<b>N/A</b>	---	---
Filter Changed		Client Info		<b>N/A</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>81</b>	---	---
Chromium	ppm	ASTM D5185m	>20	<b>3</b>	---	---
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---	---
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185m	>20	<b>5</b>	---	---
Lead	ppm	ASTM D5185m	>40	<b>36</b>	---	---
Copper	ppm	ASTM D5185m	>330	<b>2</b>	---	---
Tin	ppm	ASTM D5185m	>15	<b>2</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

### CONTAMINATION

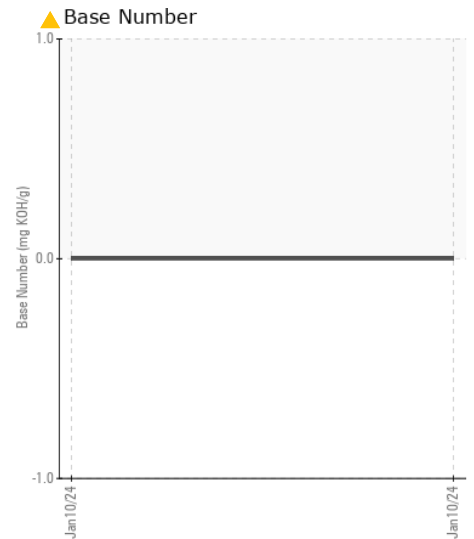
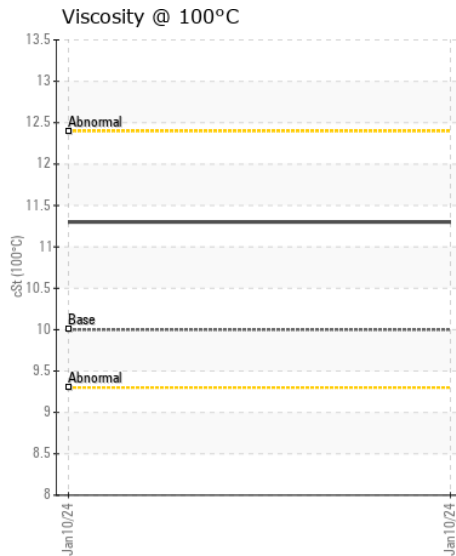
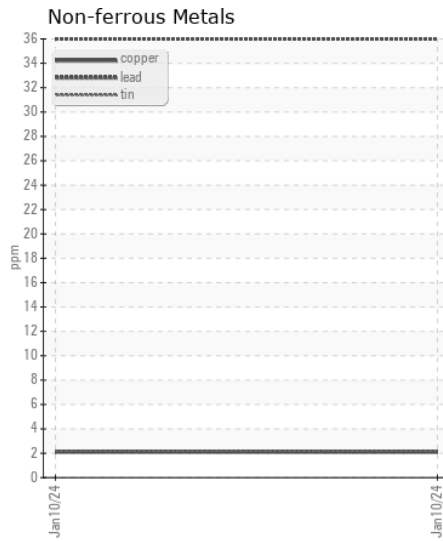
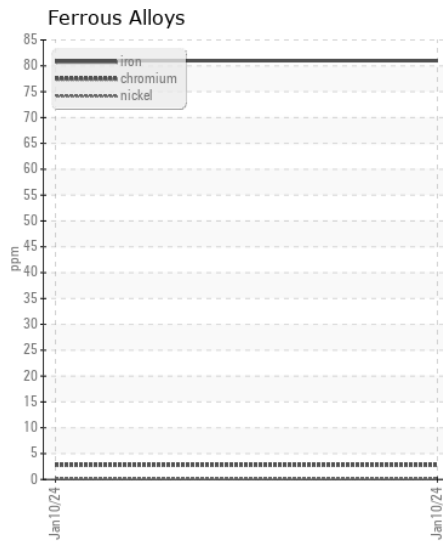
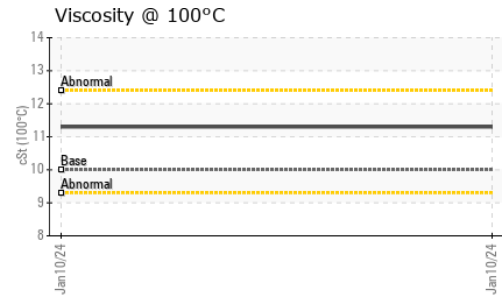
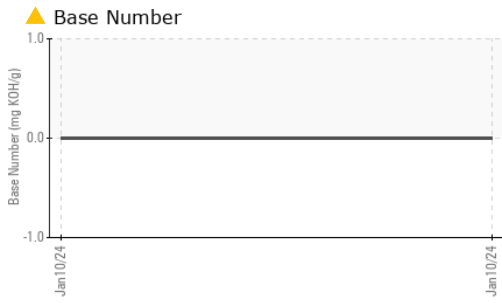
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>20</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>8</b>	---	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Glycol		WC Method		<b>NEG</b>	---	---
Soot %	%	*ASTM D7844	>3	<b>0.8</b>	---	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>16.9</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>38.3</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	---	---

### FLUID CONDITION

The BN level is low. The oil is no longer serviceable.

Sodium	ppm	ASTM D5185m		<b>3</b>	---	---
Boron	ppm	ASTM D5185m		<b>17</b>	---	---
Barium	ppm	ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>41</b>	---	---
Manganese	ppm	ASTM D5185m		<b>1</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>474</b>	---	---
Calcium	ppm	ASTM D5185m		<b>1578</b>	---	---
Phosphorus	ppm	ASTM D5185m		<b>759</b>	---	---
Zinc	ppm	ASTM D5185m		<b>911</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>2285</b>	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>56.2</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>▲ 0.0</b>	---	---
Visc @ 100°C	cSt	ASTM D445	10	<b>11.3</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : IL0034907 **Received** : 17 Jan 2024  
**Lab Number** : 06063345 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10834727 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

**IDEALEASE OF ATLANTA - FULTON**  
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 US 30331

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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)