



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**8411757**  
Component  
**Diesel Engine**  
Fluid  
**MOBIL 1 SAE 10W30 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>IL0030993</b>	IL0034913	---
Sample Date		Client Info		<b>12 Mar 2024</b>	28 Dec 2023	---
Machine Age	mls	Client Info		<b>6138</b>	6083	---
Oil Age	mls	Client Info		<b>0</b>	6083	---
Filter Age	mls	Client Info		<b>0</b>	6083	---
Oil Changed		Client Info		<b>N/A</b>	Not Changd	---
Filter Changed		Client Info		<b>N/A</b>	Not Changd	---
Sample Status				<b>NORMAL</b>	NORMAL	---

### WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	<b>24</b>	27	---
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>11</b>	12	---
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	2	---
Copper	ppm	ASTM D5185m	>330	<b>7</b>	8	---
Tin	ppm	ASTM D5185m	>15	<b>0</b>	1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

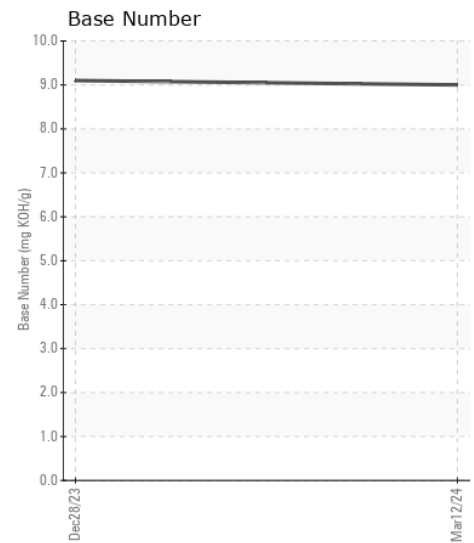
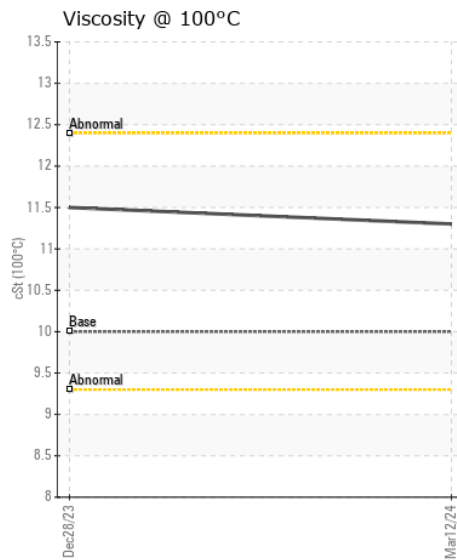
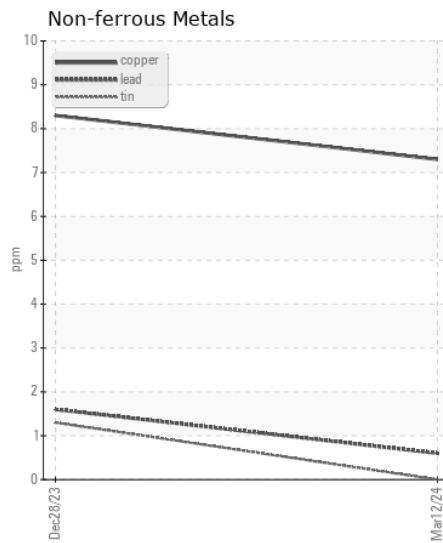
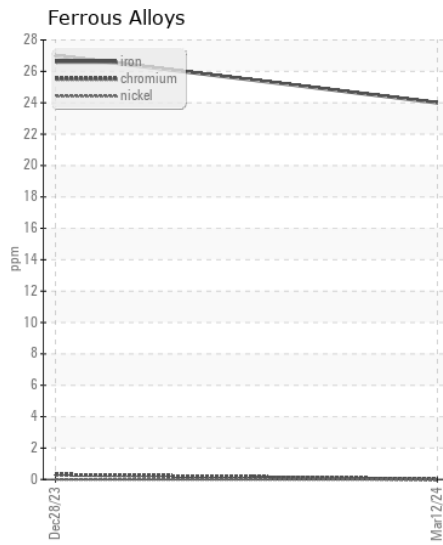
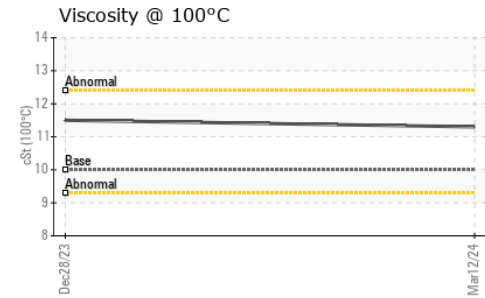
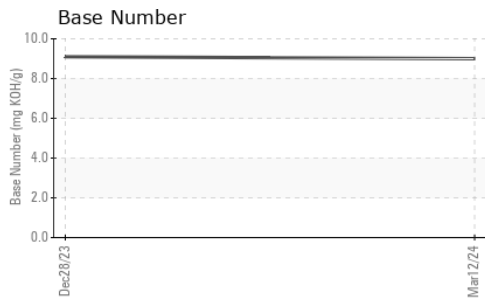
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>35</b>	36	---
Potassium	ppm	ASTM D5185m	>20	<b>33</b>	37	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.1</b>	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.6</b>	5.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.5</b>	19.6	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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>2</b>	2	---
Boron	ppm	ASTM D5185m		<b>95</b>	101	---
Barium	ppm	ASTM D5185m		<b>3</b>	3	---
Molybdenum	ppm	ASTM D5185m		<b>60</b>	62	---
Manganese	ppm	ASTM D5185m		<b>3</b>	3	---
Magnesium	ppm	ASTM D5185m		<b>485</b>	498	---
Calcium	ppm	ASTM D5185m		<b>1836</b>	1804	---
Phosphorus	ppm	ASTM D5185m		<b>1038</b>	1023	---
Zinc	ppm	ASTM D5185m		<b>1278</b>	1270	---
Sulfur	ppm	ASTM D5185m		<b>3953</b>	3461	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.6</b>	15.4	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>9.0</b>	9.1	---
Visc @ 100°C	cSt	ASTM D445	10	<b>11.3</b>	11.5	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : IL0030993  
**Lab Number** : 06123351  
**Unique Number** : 10937502  
**Test Package** : FLEET

**Received** : 20 Mar 2024  
**Tested** : 21 Mar 2024  
**Diagnosed** : 21 Mar 2024 - Wes Davis

**IDEALEASE OF ATLANTA - FULTON**  
 4675 BAKERS FERRY ROAD  
 ATLANTA, GA  
 US 30331

Contact: DAVID JOHNS  
 davidjohns@idealease.com

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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