



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

Machine Id  
**814BL**  
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>IL0034842</b>	IL06009314	IL05934009
Sample Date		Client Info		<b>06 Feb 2024</b>	17 Oct 2023	01 Aug 2023
Machine Age	mls	Client Info		<b>78939</b>	74793	71744
Oil Age	mls	Client Info		<b>8000</b>	15000	8000
Filter Age	mls	Client Info		<b>8000</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	N/A	N/A
Filter Changed		Client Info		<b>Changed</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>19</b>	7	7
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	<1
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	3	5
Lead	ppm	ASTM D5185m	>40	<b>2</b>	1	0
Copper	ppm	ASTM D5185m	>330	<b>2</b>	1	1
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</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

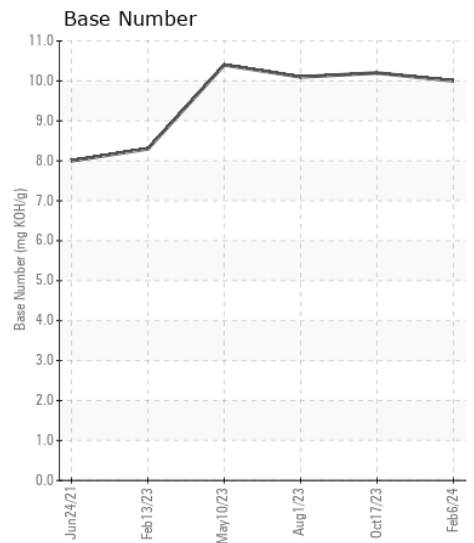
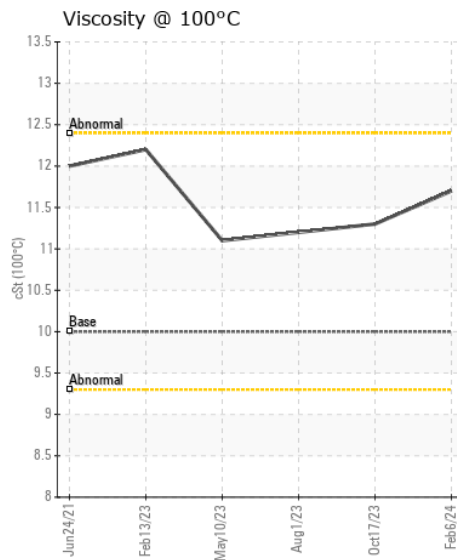
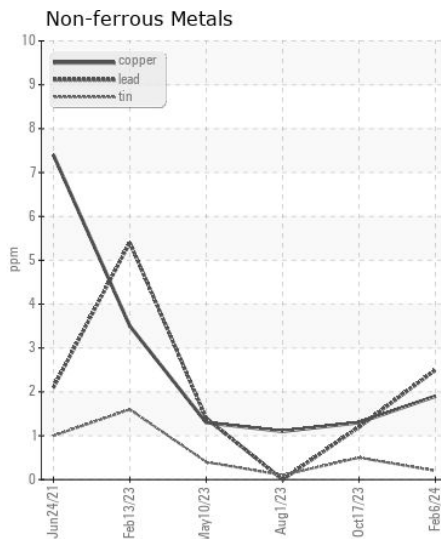
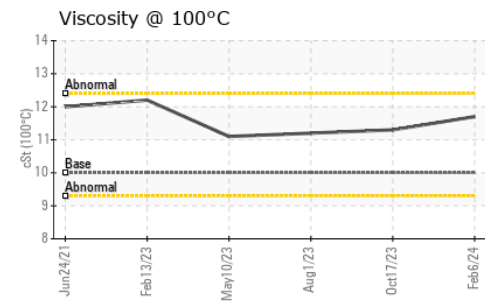
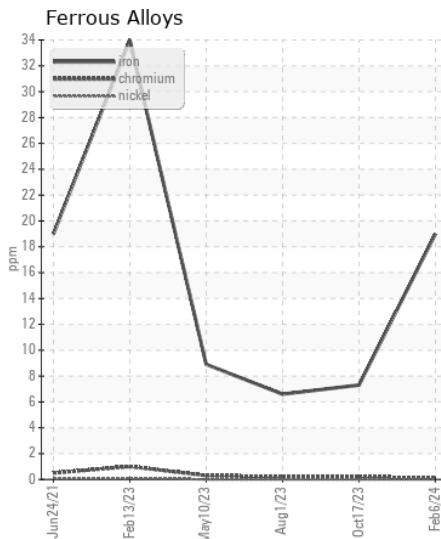
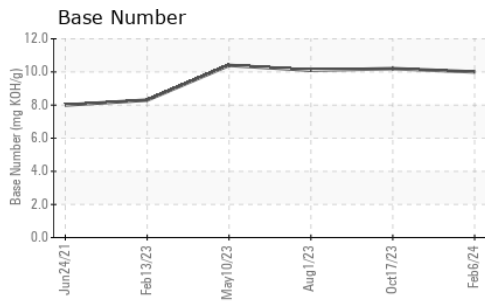
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>8</b>	5	6
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	<1
Fuel		WC Method	>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>1.2</b>	0.7	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.4</b>	9.1	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.1</b>	22.4	21.7
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	3
Boron	ppm	ASTM D5185m		<b>28</b>	37	56
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>47</b>	40	44
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>521</b>	488	538
Calcium	ppm	ASTM D5185m		<b>1796</b>	1612	1732
Phosphorus	ppm	ASTM D5185m		<b>777</b>	740	781
Zinc	ppm	ASTM D5185m		<b>985</b>	899	942
Sulfur	ppm	ASTM D5185m		<b>2592</b>	2467	3081
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>22.6</b>	20.7	19.7
Base Number (BN)	mg KOH/g	ASTM D2896		<b>10.0</b>	10.2	10.1
Visc @ 100°C	cSt	ASTM D445	10	<b>11.7</b>	11.3	11.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : IL0034842  
**Lab Number** : 06085597  
**Unique Number** : 10873042  
**Test Package** : FLEET

**Received** : 12 Feb 2024  
**Tested** : 12 Feb 2024  
**Diagnosed** : 12 Feb 2024 - Wes Davis

**IDEALRELEASE OF ATLANTA - FULTON**  
 4675 BAKERS FERRY ROAD  
 ATLANTA, GA  
 US 30331  
 Contact: DAVID JOHNS  
 davidjohns@idealease.com  
 T: (404)699-5571  
 F: (404)699-7420

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)