



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Machine Id  
**91016**  
Component  
**Front Rear Left Genset**  
Fluid  
**MOBIL 1 FORMULA 10W30 (2 QTS)**

## RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0824049	---	---
Sample Date		Client Info		06 Feb 2024	---	---
Machine Age	hrs	Client Info		2138	---	---
Oil Age	hrs	Client Info		200	---	---
Filter Age	hrs	Client Info		200	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	4	---	---
Chromium	ppm	ASTM D5185m	>4	<1	---	---
Nickel	ppm	ASTM D5185m	>2	<1	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m	>5	0	---	---
Aluminum	ppm	ASTM D5185m	>12	<1	---	---
Lead	ppm	ASTM D5185m	>17	<1	---	---
Copper	ppm	ASTM D5185m	>70	1	---	---
Tin	ppm	ASTM D5185m	>15	<1	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

## CONTAMINATION

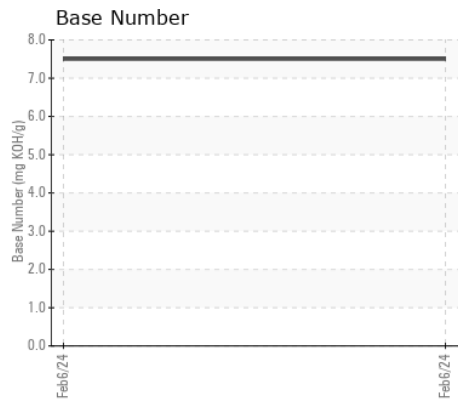
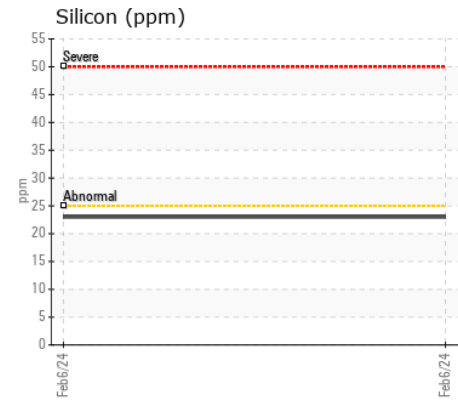
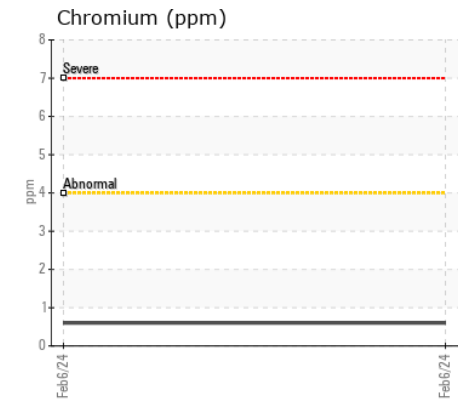
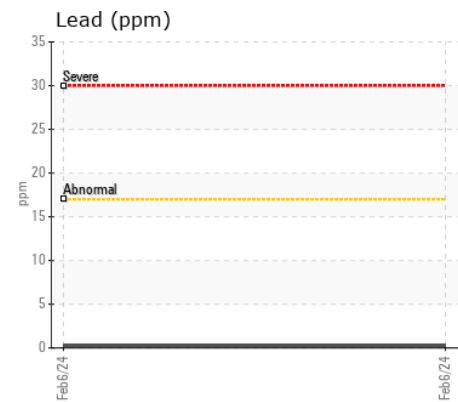
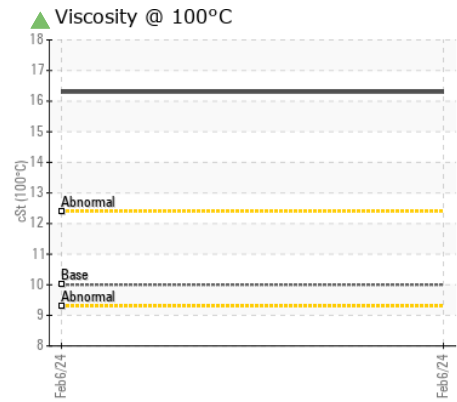
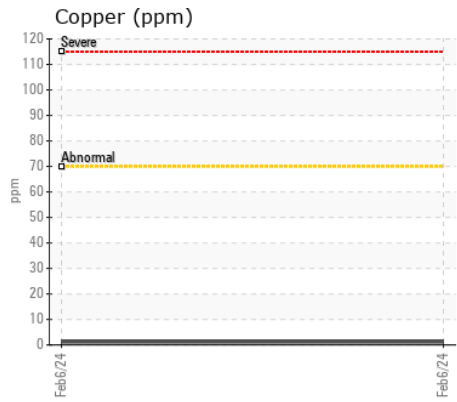
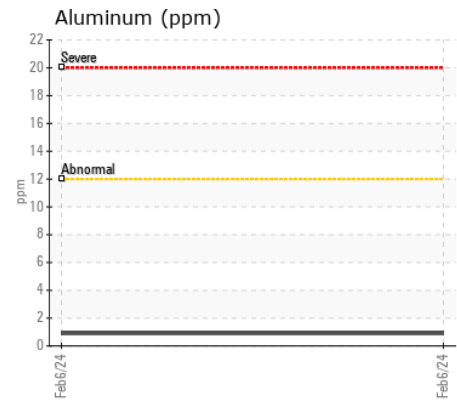
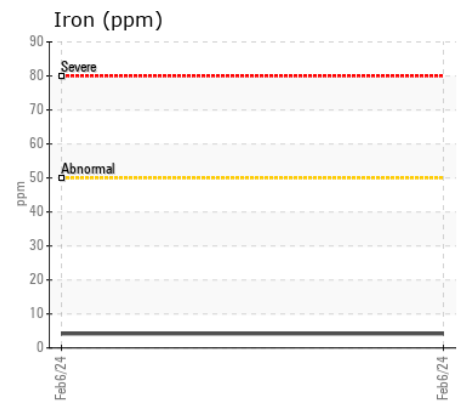
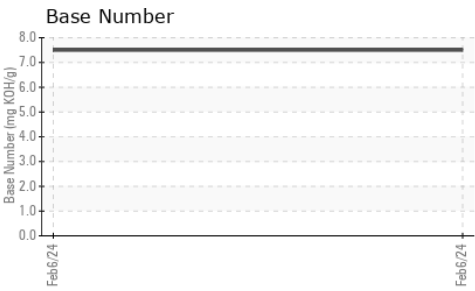
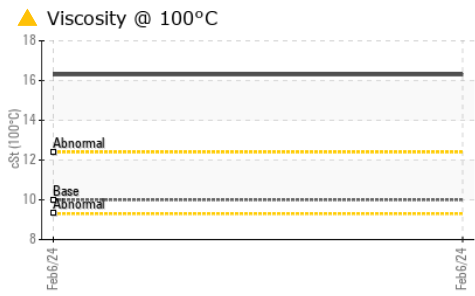
Moderate concentration of visible dirt/debris present in the oil.

Silicon	ppm	ASTM D5185m	>25	23	---	---
Potassium	ppm	ASTM D5185m	>20	2	---	---
Fuel		WC Method	>4.0	<1.0	---	---
Water		WC Method	>0.1	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	*ASTM D7844		0	---	---
Nitration	Abs/cm	*ASTM D7624	>20	6.5	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.1	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	MODER	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---	---

## FLUID CONDITION

The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		0	---	---
Boron	ppm	ASTM D5185m		10	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		12	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		154	---	---
Calcium	ppm	ASTM D5185m		2412	---	---
Phosphorus	ppm	ASTM D5185m		827	---	---
Zinc	ppm	ASTM D5185m		1157	---	---
Sulfur	ppm	ASTM D5185m		3230	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.3	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		7.5	---	---
Visc @ 100°C	cSt	ASTM D445	10.0	16.3	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : WC0824049 Received : 09 Feb 2024  
 Lab Number : 06085300 Tested : 12 Feb 2024  
 Unique Number : 10872745 Diagnosed : 12 Feb 2024 - Don Baldrige  
 Test Package : MOB 1 ( Additional Tests: TBN )

**ATEL BUS & TRUCK**  
 12120 CONWAY RD  
 BELTSVILLE, MD  
 US 20705  
 Contact: OSCAR ROMERO  
 oromero@atelbus.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)

T:  
F: