



# OIL ANALYSIS REPORT

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

Machine Id  
**1449**  
 Component  
**Gasoline Engine**  
 Fluid  
**MOBIL 1 5W30 (--- QTS)**

## 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>WC0827784</b>	WC0827700	WC0691253
Sample Date		Client Info		<b>04 May 2024</b>	29 Sep 2023	20 May 2023
Machine Age	mls	Client Info		<b>99767</b>	86748	79065
Oil Age	mls	Client Info		<b>0</b>	7100	0
Filter Age	mls	Client Info		<b>0</b>	7100	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	<b>23</b>	26	16
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>40	<b>4</b>	3	2
Lead	ppm	ASTM D5185m	>50	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>155	<b>24</b>	28	16
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

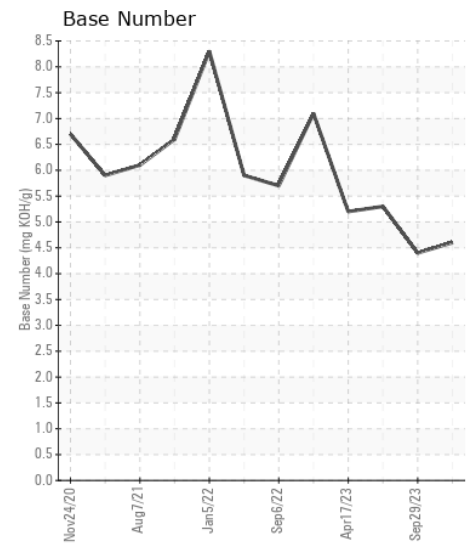
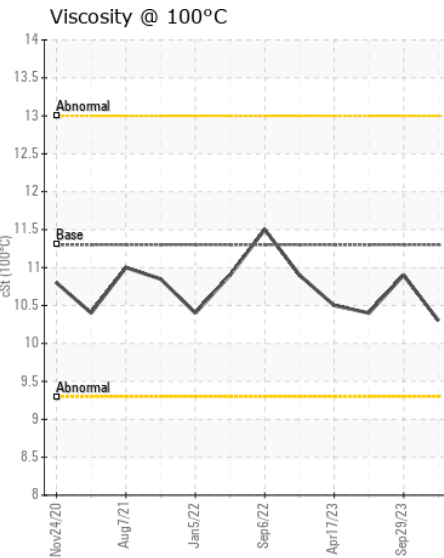
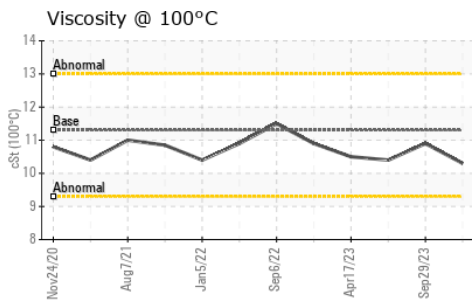
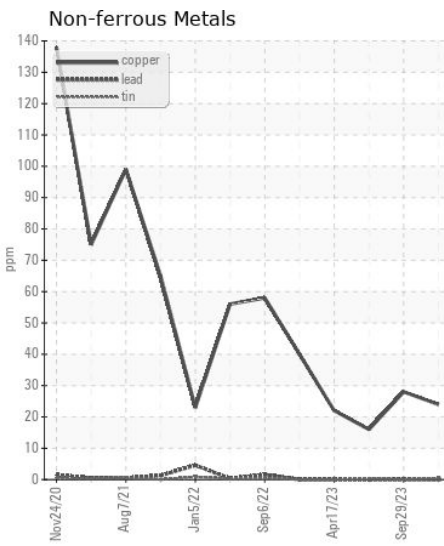
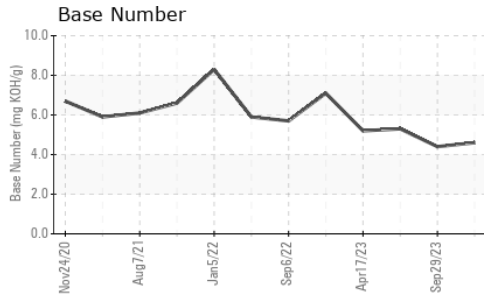
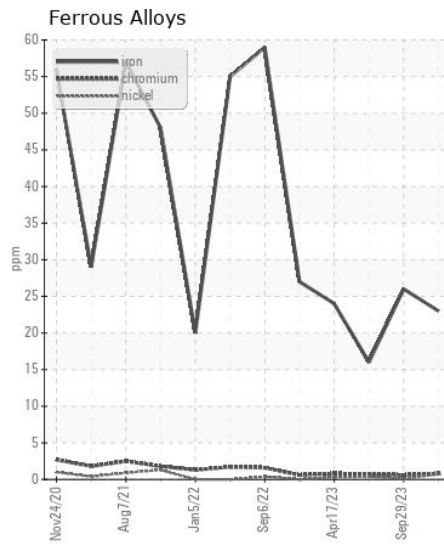
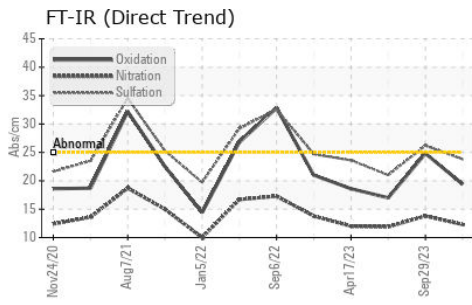
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>9</b>	8	8
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	0	3
Fuel		WC Method	>4.0	<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		<b>0.1</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.3</b>	13.8	11.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.8</b>	26.2	21.0
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	>400	<b>8</b>	4	4
Boron	ppm	ASTM D5185m	94	<b>33</b>	24	34
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0.0	<b>71</b>	90	92
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	1388	<b>497</b>	687	710
Calcium	ppm	ASTM D5185m	820	<b>1125</b>	676	797
Phosphorus	ppm	ASTM D5185m	720	<b>694</b>	625	677
Zinc	ppm	ASTM D5185m	780	<b>817</b>	812	864
Sulfur	ppm	ASTM D5185m	2240	<b>2732</b>	1893	2308
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.4</b>	24.8	17.0
Base Number (BN)	mg KOH/g	ASTM D2896		<b>4.6</b>	4.4	5.3
Visc @ 100°C	cSt	ASTM D445	11.3	<b>10.3</b>	10.9	10.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0827784  
**Lab Number** : 06178564  
**Unique Number** : 11029890  
**Test Package** : FLEET  
**Received** : 14 May 2024  
**Tested** : 15 May 2024  
**Diagnosed** : 15 May 2024 - Wes Davis

**CARCO TRANSPORTATION**  
 415 S WESTERN AVENUE  
 OKLAHOMA CITY, OK  
 US 73109  
 Contact: VICTOR STACHONIAK  
 victors@carcotrans.com  
 T: (405)239-2555  
 F:

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)