



# OIL ANALYSIS REPORT



Area  
**Mobile Fleet**  
Machine Id  
**5502 5502**  
Component  
**Hydraulic System**  
Fluid  
**MOBIL 10W (66 GAL)**

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

## RECOMMENDATION

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0861941</b>	WC0765082	WC0740803
Sample Date		Client Info		<b>09 Jan 2024</b>	09 May 2023	05 Oct 2022
Machine Age	hrs	Client Info		<b>10497</b>	9934	9315
Oil Age	hrs	Client Info		<b>1198</b>	635	1365
Filter Age	hrs	Client Info		<b>1198</b>	635	1365
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>9</b>	8	25
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>2</b>	0	8
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>75	<b>3</b>	2	9
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	▲ LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

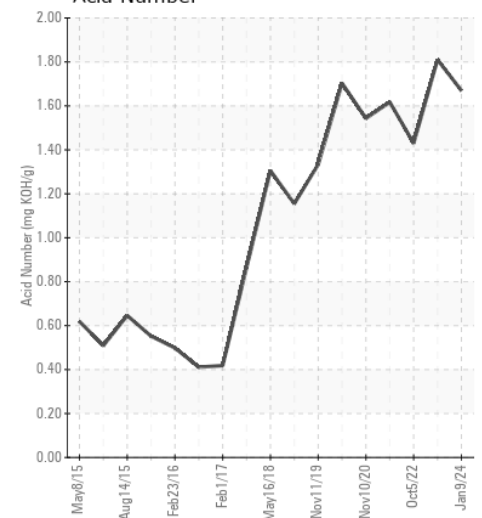
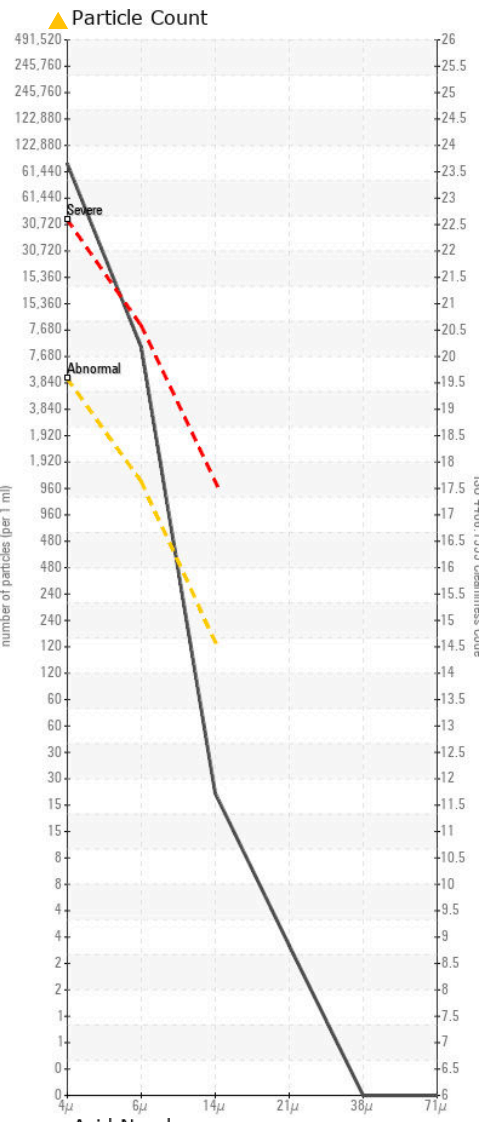
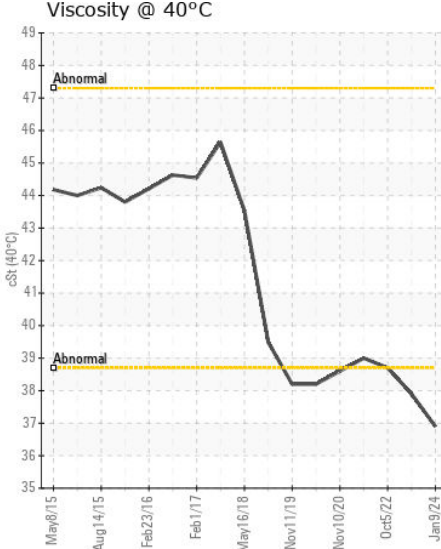
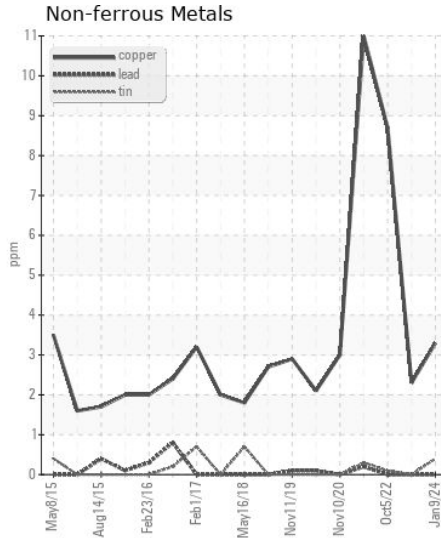
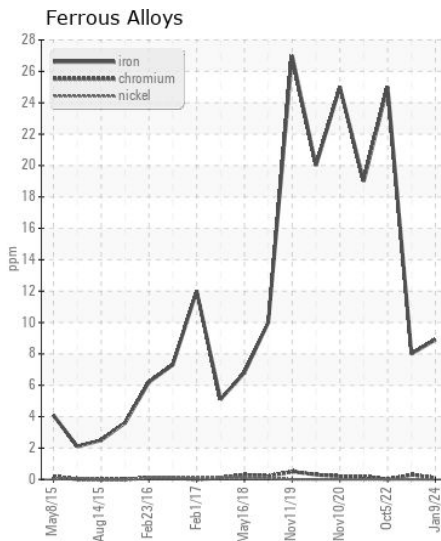
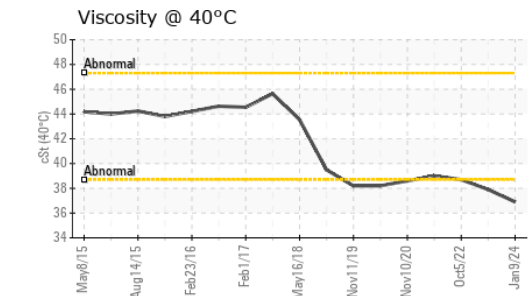
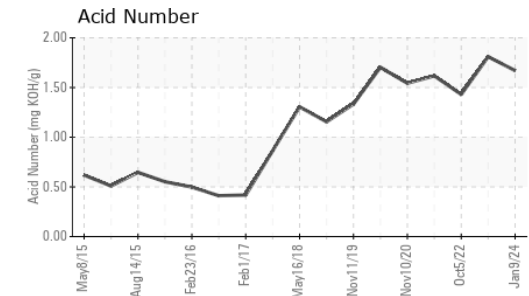
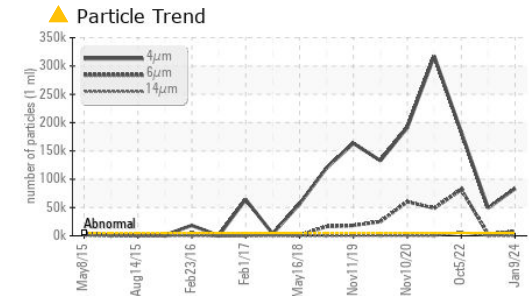
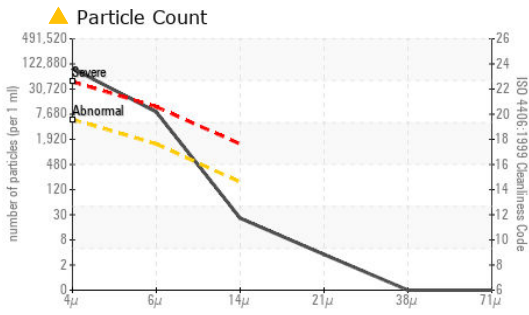
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>7</b>	5	16
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	<1	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>▲ 83288</b>	▲ 49290	▲ 184259
Particles >6µm		ASTM D7647	>1300	<b>▲ 7549</b>	▲ 2719	▲ 81713
Particles >14µm		ASTM D7647	>160	<b>22</b>	89	▲ 6145
Particles >21µm		ASTM D7647	>40	<b>3</b>	13	▲ 760
Particles >38µm		ASTM D7647	>10	<b>0</b>	1	▲ 24
Particles >71µm		ASTM D7647	>3	<b>0</b>	1	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 24/20/12</b>	▲ 23/19/14	▲ 25/24/20
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	>0.1	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>0</b>	0	0
Boron	ppm	ASTM D5185m		<b>2</b>	0	4
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>3</b>	1	2
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>704</b>	481	661
Calcium	ppm	ASTM D5185m		<b>103</b>	60	193
Phosphorus	ppm	ASTM D5185m		<b>1140</b>	719	1107
Zinc	ppm	ASTM D5185m		<b>1301</b>	855	1276
Sulfur	ppm	ASTM D5185m		<b>7380</b>	4859	7602
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.67</b>	1.81	1.43
Visc @ 40°C	cSt	ASTM D445		<b>36.9</b>	37.9	38.7



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0861941 **Received** : 11 Jan 2024  
**Lab Number** : 06058037 **Diagnosed** : 12 Jan 2024  
**Unique Number** : 10829419 **Diagnostician** : Don Baldrige  
**Test Package** : CONST

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Certificate L2367  
 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)