



# OIL ANALYSIS REPORT

WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area  
**Mobile Fleet**  
Machine Id  
**5001 5001**  
Component  
**Right Hub**  
Fluid  
**MOBIL MOBILUBE XFD 60 (1 GAL)**

## RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil 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>WC0956036</b>	WC0624084	WC0522982
Sample Date		Client Info		<b>11 Jul 2024</b>	17 Sep 2021	16 Nov 2020
Machine Age	hrs	Client Info		<b>21151</b>	16577	15951
Oil Age	hrs	Client Info		<b>458</b>	626	576
Filter Age	hrs	Client Info		<b>458</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Changd</b>	N/A	Not Changd
Sample Status				<b>ABNORMAL</b>	ATTENTION	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>126</b>	102	119
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>1</b>	0	0
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m		<b>10</b>	<1	<1
Lead	ppm	ASTM D5185m		<b>0</b>	0	0
Copper	ppm	ASTM D5185m		<b>1</b>	<1	<1
Tin	ppm	ASTM D5185m		<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

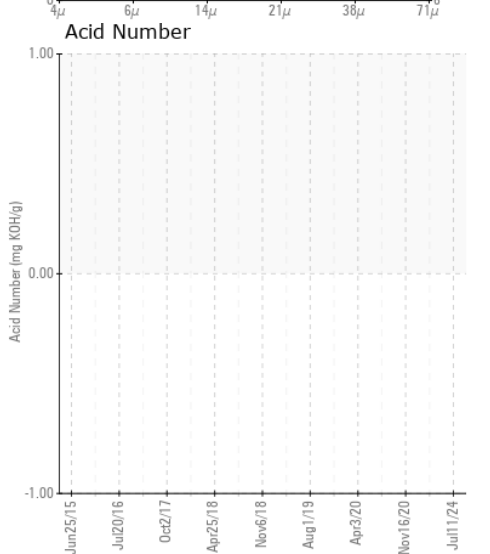
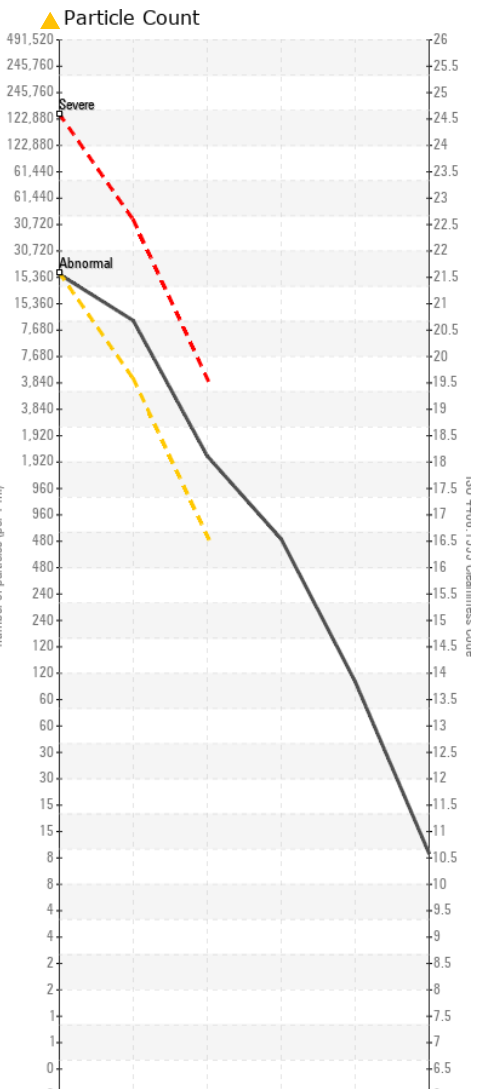
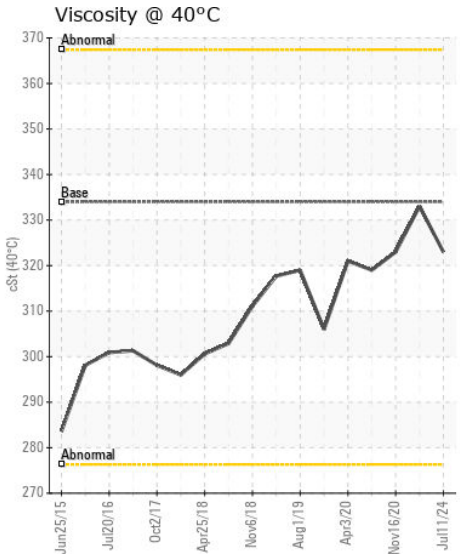
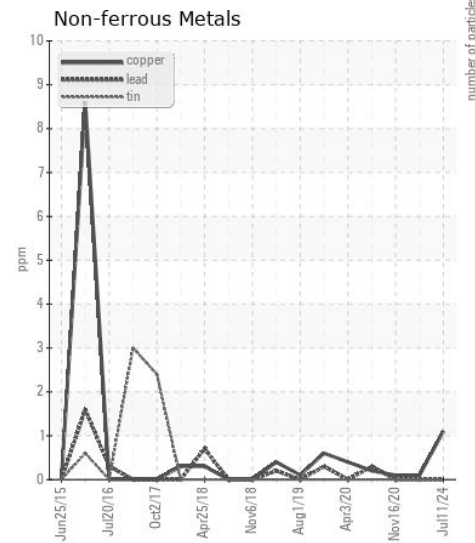
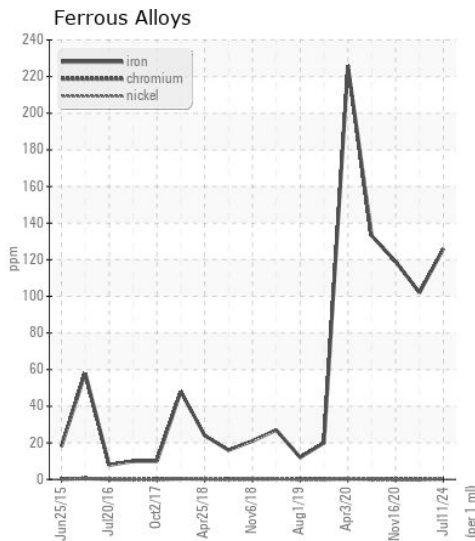
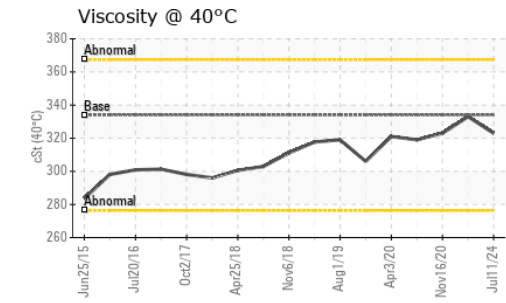
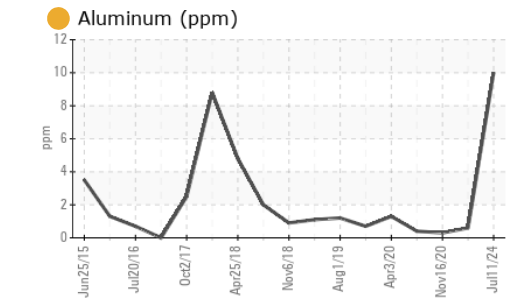
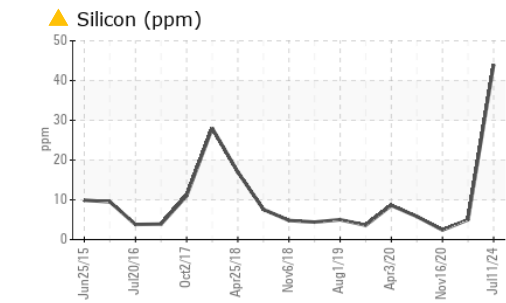
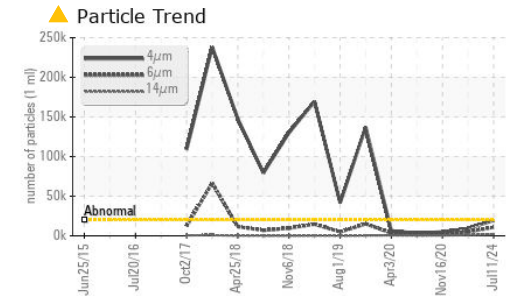
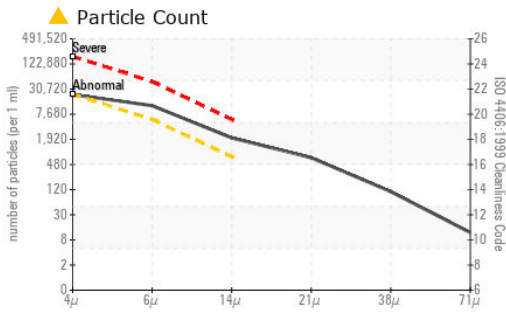
There is a high amount of particulates present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		<b>▲ 44</b>	5	2
Potassium	ppm	ASTM D5185m	>20	<b>7</b>	0	0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>20000	<b>19626</b>	8989	4967
Particles >6µm		ASTM D7647	>5000	<b>▲ 10692</b>	4897	2706
Particles >14µm		ASTM D7647	>640	<b>▲ 1820</b>	● 833	461
Particles >21µm		ASTM D7647	>160	<b>▲ 613</b>	● 281	155
Particles >38µm		ASTM D7647	>40	<b>▲ 95</b>	● 43	24
Particles >71µm		ASTM D7647	>10	<b>10</b>	4	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>▲ 21/21/18</b>	● 20/19/17	19/19/16
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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>3</b>	4	3
Boron	ppm	ASTM D5185m		<b>116</b>	125	107
Barium	ppm	ASTM D5185m		<b>1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>4</b>	2	2
Calcium	ppm	ASTM D5185m		<b>324</b>	289	291
Phosphorus	ppm	ASTM D5185m		<b>303</b>	323	297
Zinc	ppm	ASTM D5185m		<b>21</b>	4	0
Sulfur	ppm	ASTM D5185m		<b>11678</b>	12250	11321
Visc @ 40°C	cSt	ASTM D445	334	<b>323</b>	333	323



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0956036 **Received** : 15 Jul 2024  
**Lab Number** : 06235749 **Tested** : 16 Jul 2024  
**Unique Number** : 11124583 **Diagnosed** : 16 Jul 2024 - Don Baldridge  
**Test Package** : CONST ( Additional Tests: PrtCount )

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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)