



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area  
**Mobile Fleet**  
 Machine Id  
**6452 6452**  
 Component  
**Gearbox**  
 Fluid  
**MOBIL MOBILUBE HD 85W140 (3 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0937839</b>	WC0704191	WC0462547
Sample Date		Client Info		<b>08 Jul 2024</b>	19 May 2022	11 May 2020
Machine Age	hrs	Client Info		<b>8182</b>	4184	34
Oil Age	hrs	Client Info		<b>4005</b>	4184	34
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Sample Status				<b>ABNORMAL</b>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>64</b>	100	7
Chromium	ppm	ASTM D5185m	>10	<b>1</b>	4	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	4	<1
Aluminum	ppm	ASTM D5185m	>25	<b>1</b>	<1	0
Lead	ppm	ASTM D5185m	>50	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>200	<b>&lt;1</b>	2	<1
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

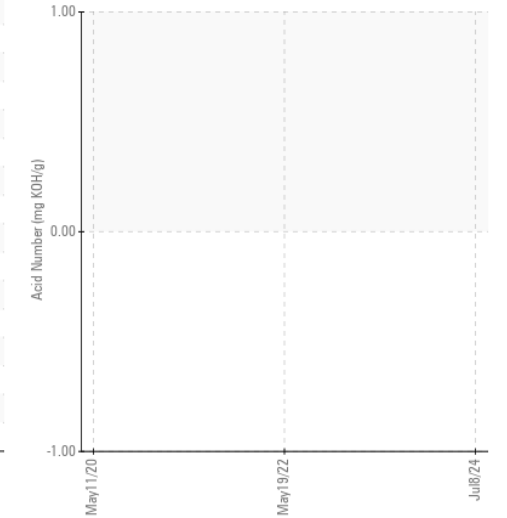
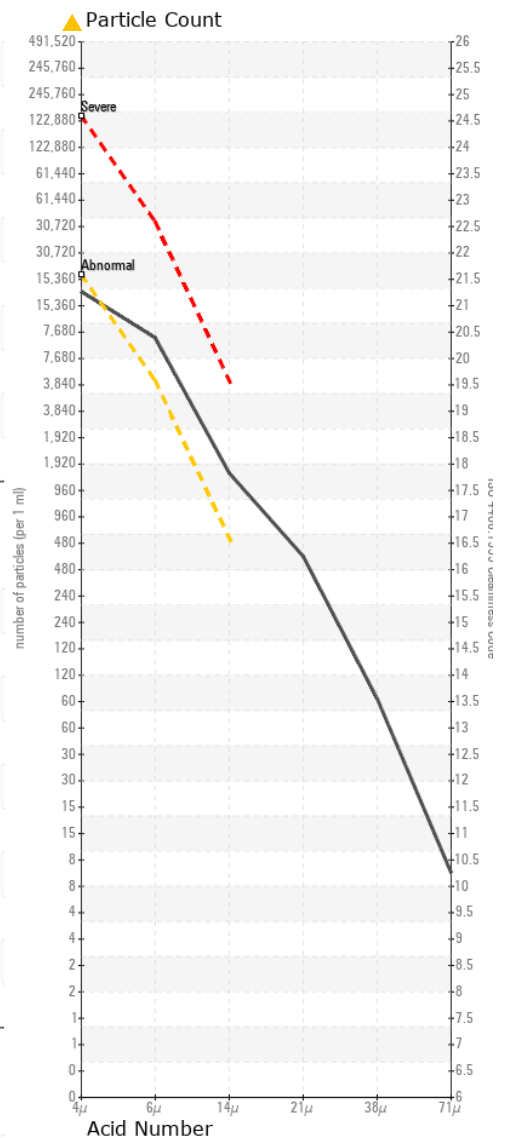
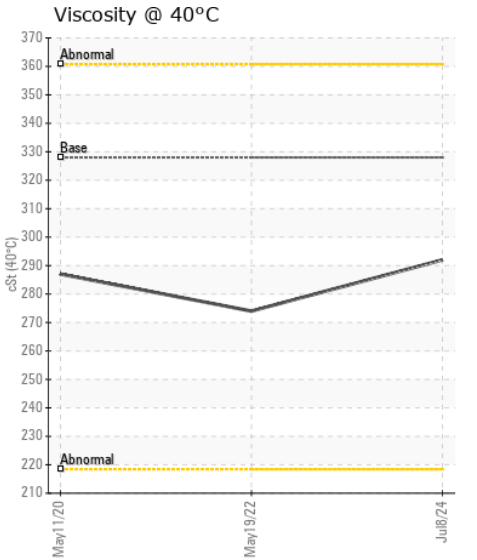
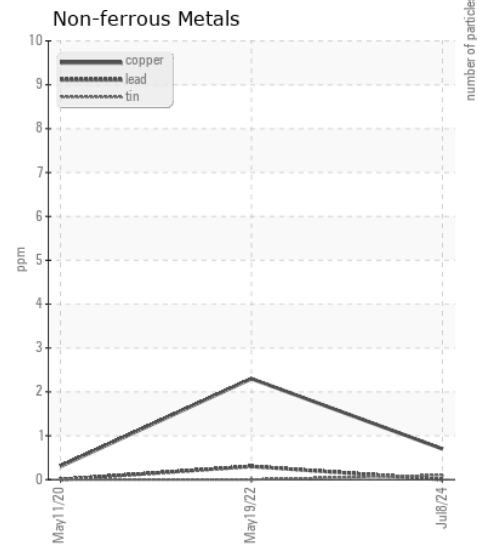
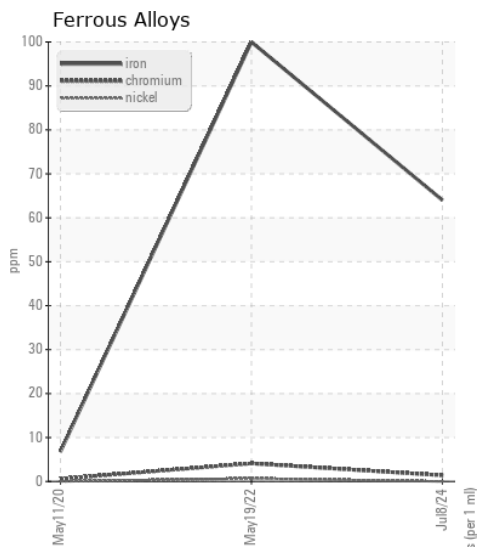
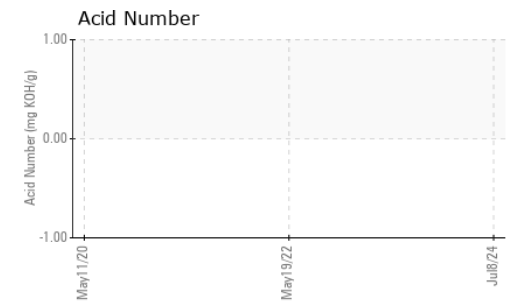
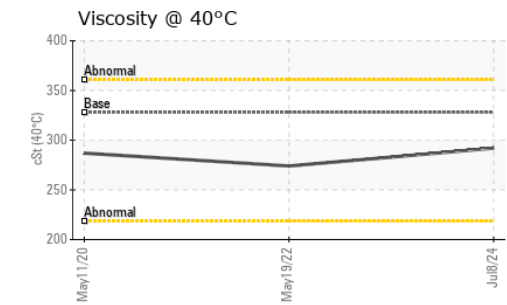
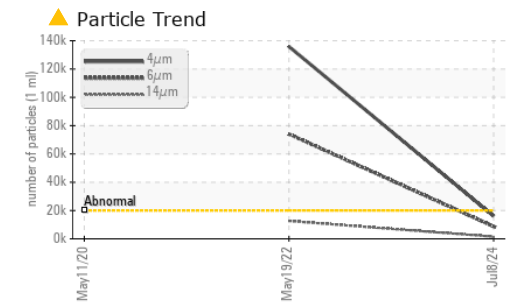
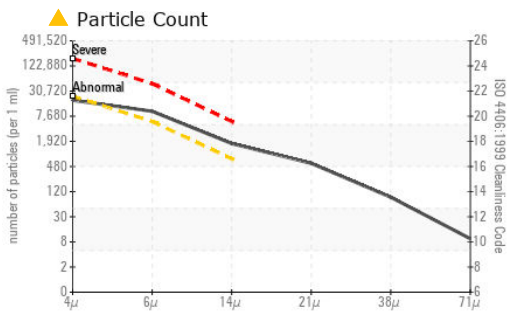
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>8</b>	3	1
Potassium	ppm	ASTM D5185m	>20	<b>8</b>	22	35
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>20000	<b>16077</b>	▲ 135869	---
Particles >6µm		ASTM D7647	>5000	▲ <b>8758</b>	▲ 74016	---
Particles >14µm		ASTM D7647	>640	▲ <b>1491</b>	▲ 12597	---
Particles >21µm		ASTM D7647	>160	▲ <b>502</b>	▲ 4243	---
Particles >38µm		ASTM D7647	>40	▲ <b>78</b>	▲ 655	---
Particles >71µm		ASTM D7647	>10	<b>8</b>	▲ 67	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ <b>21/20/18</b>	▲ 24/23/21	---
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>2</b>	2	1
Boron	ppm	ASTM D5185m		<b>142</b>	203	204
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>3</b>	7	7
Manganese	ppm	ASTM D5185m		<b>2</b>	5	<1
Magnesium	ppm	ASTM D5185m		<b>22</b>	45	40
Calcium	ppm	ASTM D5185m		<b>140</b>	133	124
Phosphorus	ppm	ASTM D5185m		<b>1075</b>	948	878
Zinc	ppm	ASTM D5185m		<b>78</b>	79	62
Sulfur	ppm	ASTM D5185m		<b>29741</b>	17669	16183
Visc @ 40°C	cSt	ASTM D445	328	<b>292</b>	274	287



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0937839 **Received** : 10 Jul 2024  
**Lab Number** : 06232165 **Tested** : 11 Jul 2024  
**Unique Number** : 11115658 **Diagnosed** : 11 Jul 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PrtCount )

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)

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