



# OIL ANALYSIS REPORT

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

Area  
**Mobile Fleet**  
 Machine Id  
**6429 6429**  
 Component  
**Gearbox**  
 Fluid  
**MOBIL MOBILUBE HD 85W140 (3 GAL)**

## RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0947797</b>	WC0688327	WC0462583
Sample Date		Client Info		<b>14 Jun 2024</b>	18 Apr 2022	15 May 2020
Machine Age	hrs	Client Info		<b>12694</b>	8401	4213
Oil Age	hrs	Client Info		<b>4297</b>	4188	4141
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>Not Changed</b>	Not Changed	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	NORMAL

## WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>200	<b>▲ 561</b>	▲ 302	169
Chromium	ppm	ASTM D5185m	>10	<b>6</b>	4	5
Nickel	ppm	ASTM D5185m	>10	<b>2</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>11</b>	3	1
Lead	ppm	ASTM D5185m	>50	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>200	<b>1</b>	1	1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	VLITE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

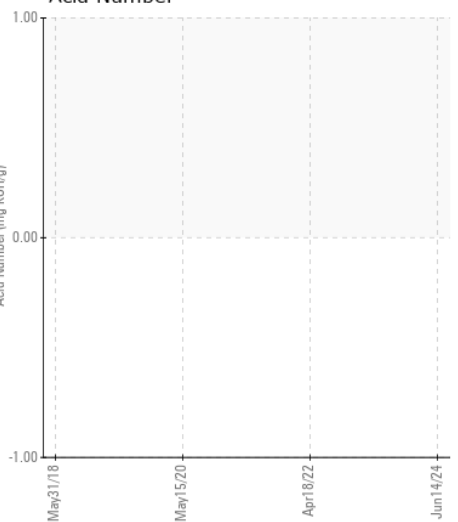
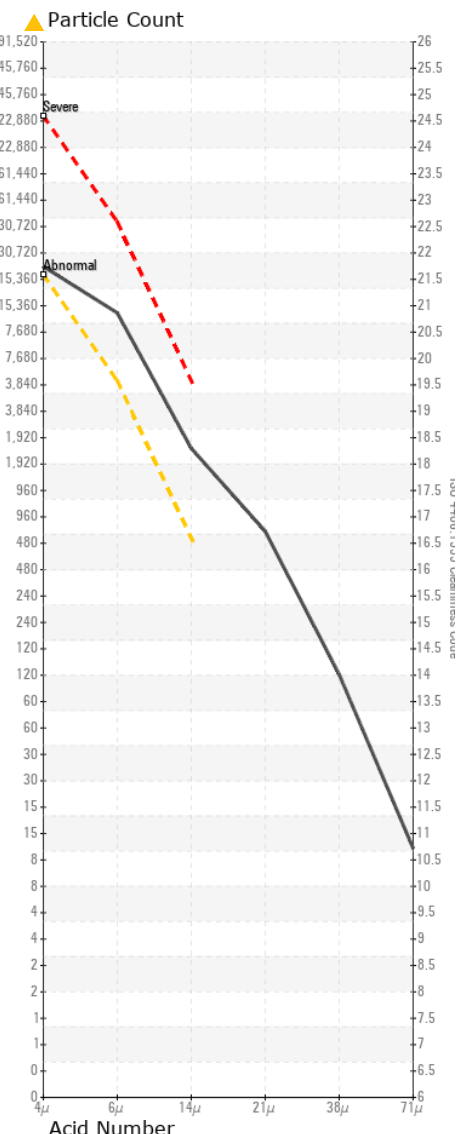
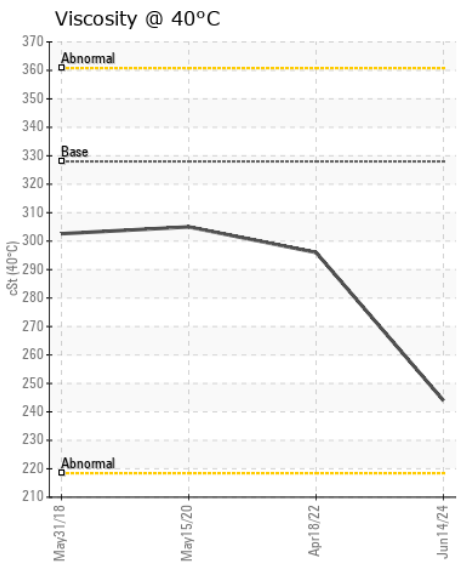
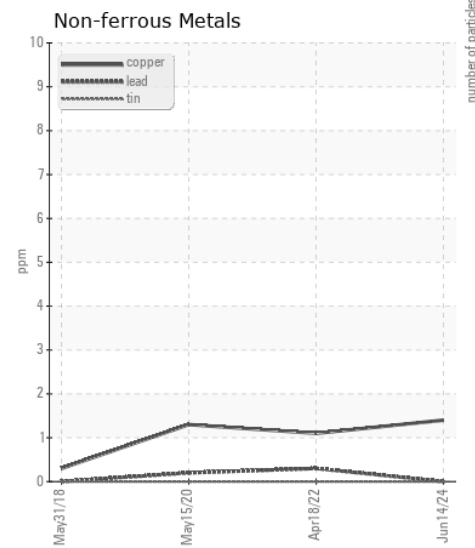
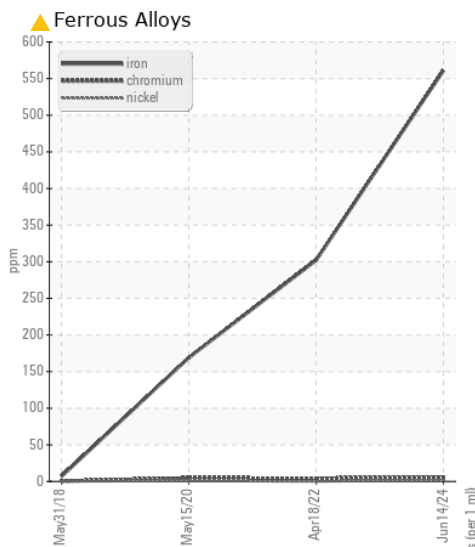
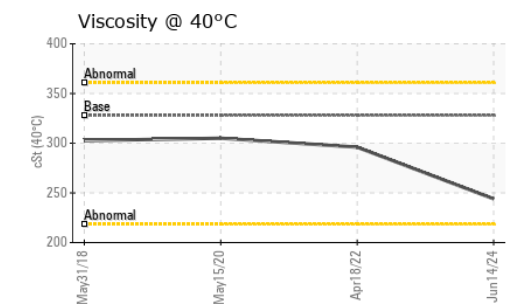
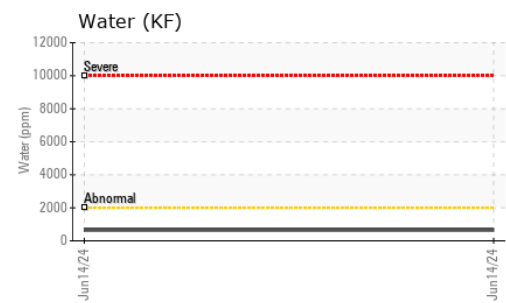
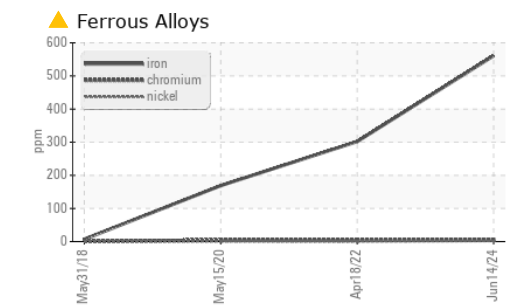
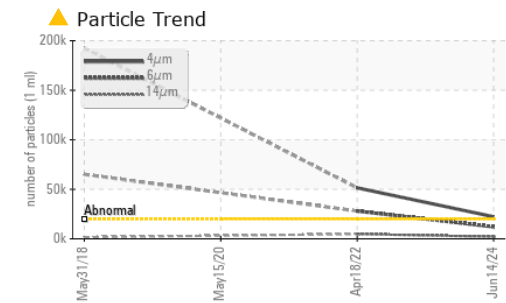
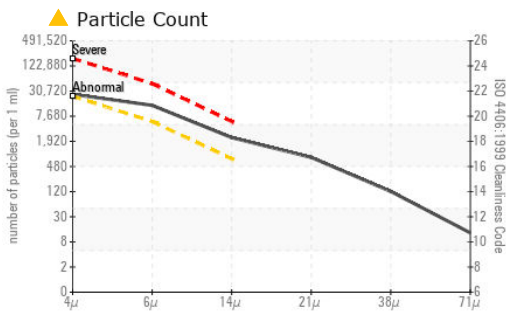
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>42</b>	11	6
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	1	0
Water	%	ASTM D6304	>0.2	<b>0.065</b>	---	---
ppm Water	ppm	ASTM D6304	>2000	<b>650</b>	---	---
Particles >4µm		ASTM D7647	>20000	<b>▲ 22288</b>	▲ 51450	---
Particles >6µm		ASTM D7647	>5000	<b>▲ 12142</b>	▲ 28028	---
Particles >14µm		ASTM D7647	>640	<b>▲ 2066</b>	▲ 4770	---
Particles >21µm		ASTM D7647	>160	<b>▲ 696</b>	▲ 1607	---
Particles >38µm		ASTM D7647	>40	<b>▲ 107</b>	▲ 248	---
Particles >71µm		ASTM D7647	>10	<b>▲ 11</b>	▲ 25	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>▲ 22/21/18</b>	▲ 23/22/19	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</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>0.2%</b>	NEG	NEG

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>4</b>	0	2
Boron	ppm	ASTM D5185m		<b>175</b>	87	118
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>2</b>	<1	2
Manganese	ppm	ASTM D5185m		<b>6</b>	5	5
Magnesium	ppm	ASTM D5185m		<b>22</b>	18	20
Calcium	ppm	ASTM D5185m		<b>133</b>	58	65
Phosphorus	ppm	ASTM D5185m		<b>1333</b>	1028	800
Zinc	ppm	ASTM D5185m		<b>126</b>	70	48
Sulfur	ppm	ASTM D5185m		<b>27565</b>	20025	16944
Visc @ 40°C	cSt	ASTM D445	328	<b>244</b>	296	305



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0947797 **Received** : 19 Jun 2024  
**Lab Number** : 06214516 **Tested** : 21 Jun 2024  
**Unique Number** : 11087380 **Diagnosed** : 21 Jun 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: KF, 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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