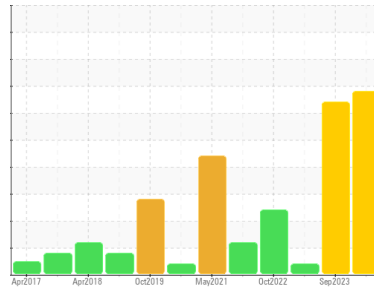




PROBLEM SUMMARY

Sample Rating Trend

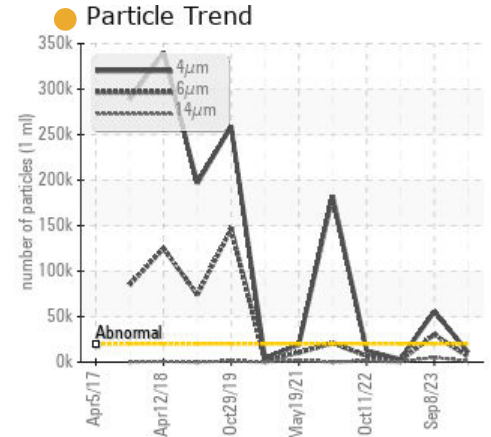
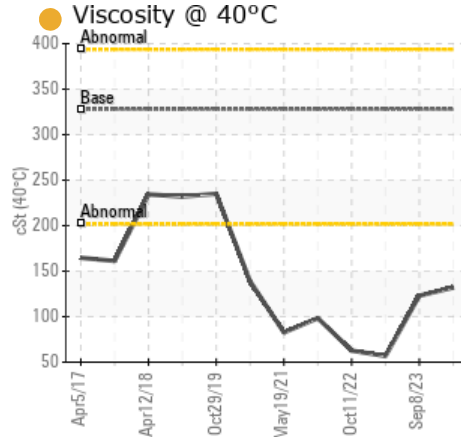
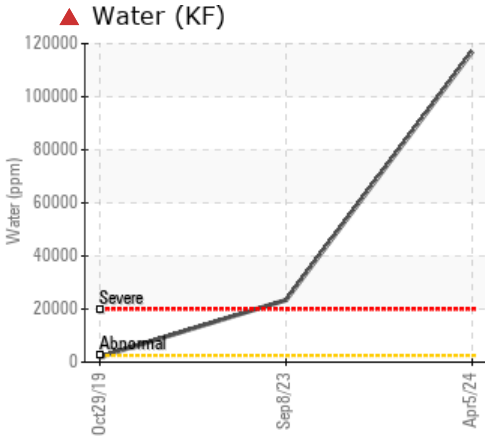


WATER



Area
Mobile Fleet
 Machine Id
5514 5514
 Component
Swing Drive
 Fluid
MOBIL MOBILUBE HD 85W140 (2 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	ATTENTION
Water	%	ASTM D6304	>0.25	▲ 11.7	▲ 2.34	---
ppm Water	ppm	ASTM D6304	>2500	▲ 117000	▲ 23400	---
Debris	scalar	*Visual	NONE	▲ MODER	NONE	NONE
Emulsified Water	scalar	*Visual	>0.25	▲ 0.2%	▲ 0.2%	NEG

Customer Id: CARBUTNC
 Sample No.: WC0919074
 Lab Number: 06142923
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

WATER



08 Sep 2023 Diag: Don Baldrige

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of particulates present in the oil. There is a high concentration of water present in the oil. The oil viscosity is lower than normal. Confirm oil type. The oil is no longer serviceable due to the presence of contaminants.

[view report](#)



VISCOSITY



29 Mar 2023 Diag: Doug Bogart

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The oil viscosity is lower than normal. Confirm oil type.

[view report](#)



VISCOSITY



11 Oct 2022 Diag: Don Baldrige

Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of particulates present in the oil. The oil viscosity is lower than normal. Confirm oil type.

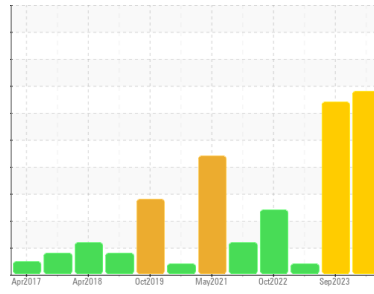
[view report](#)





OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area

Mobile Fleet

Machine Id

5514 5514

Component

Swing Drive

Fluid

MOBIL MOBILUBE HD 85W140 (2 GAL)



DIAGNOSIS

▲ Recommendation

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

▲ Contamination

Appearance is milky. There is a moderate amount of particulates present in the oil. There is a high concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

● Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0919074	WC0793972	WC0794089
Sample Date	Client Info		05 Apr 2024	08 Sep 2023	29 Mar 2023
Machine Age	hrs	Client Info	10255	9741	9213
Oil Age	hrs	Client Info	1040	526	2085
Oil Changed	Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status			SEVERE	SEVERE	ATTENTION

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >1200	153	97	103
Chromium	ppm	ASTM D5185m >10	2	1	2
Nickel	ppm	ASTM D5185m >10	<1	0	0
Titanium	ppm	ASTM D5185m	<1	<1	<1
Silver	ppm	ASTM D5185m	1	0	2
Aluminum	ppm	ASTM D5185m >25	7	3	6
Lead	ppm	ASTM D5185m >50	5	0	0
Copper	ppm	ASTM D5185m >50	16	11	18
Tin	ppm	ASTM D5185m >10	5	<1	0
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	4	<1	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	78	114	59
Barium	ppm	ASTM D5185m	<1	0	0
Molybdenum	ppm	ASTM D5185m	3	3	2
Manganese	ppm	ASTM D5185m	2	1	1
Magnesium	ppm	ASTM D5185m	331	298	474
Calcium	ppm	ASTM D5185m	143	140	384
Phosphorus	ppm	ASTM D5185m	1130	1033	997
Zinc	ppm	ASTM D5185m	782	617	929
Sulfur	ppm	ASTM D5185m	23845	22640	10877

CONTAMINANTS

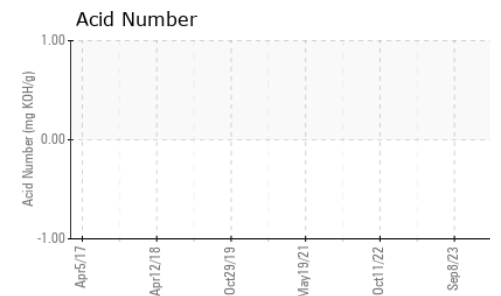
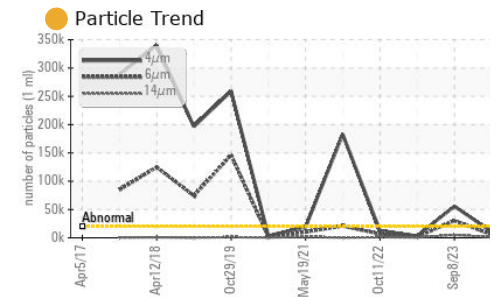
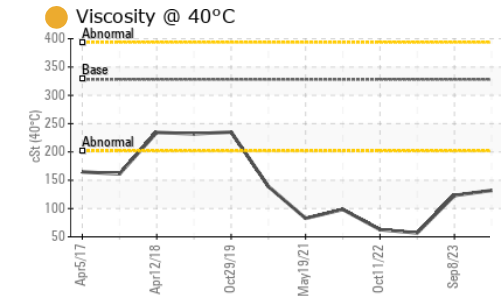
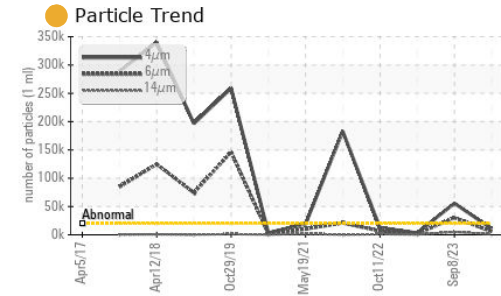
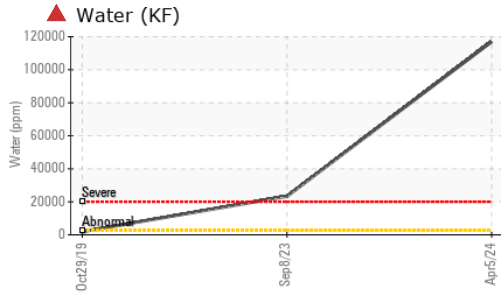
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >100	23	18	15
Sodium	ppm	ASTM D5185m	0	1	2
Potassium	ppm	ASTM D5185m >20	0	3	<1
Water	%	ASTM D6304 >0.25	▲ 11.7	▲ 2.34	---
ppm Water	ppm	ASTM D6304 >2500	▲ 117000	▲ 23400	---

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	10701	▲ 55626	3193
Particles >6µm	ASTM D7647	>5000	● 5829	▲ 30302	1739
Particles >14µm	ASTM D7647	>640	● 992	▲ 5157	296
Particles >21µm	ASTM D7647	>160	● 334	▲ 1737	100
Particles >38µm	ASTM D7647	>40	● 52	▲ 268	15
Particles >71µm	ASTM D7647	>10	5	▲ 27	2
Oil Cleanliness	ISO 4406 (c)	>21/19/16	● 21/20/17	▲ 23/22/20	19/18/15



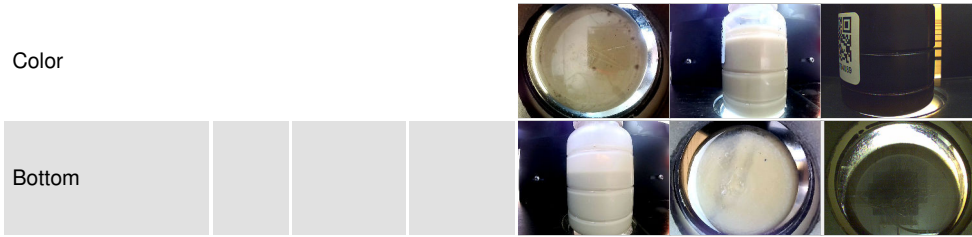
OIL ANALYSIS REPORT



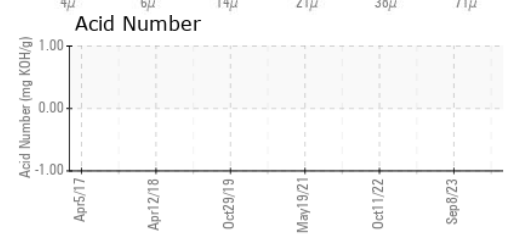
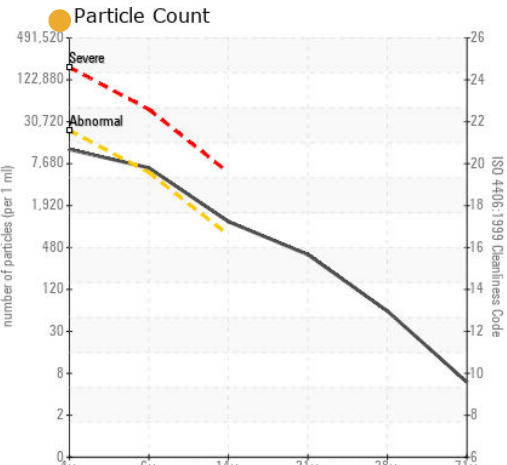
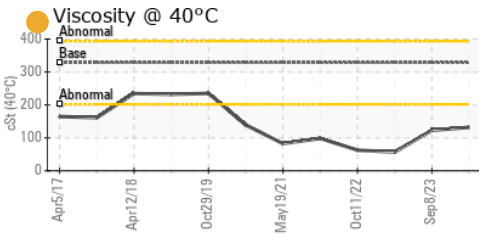
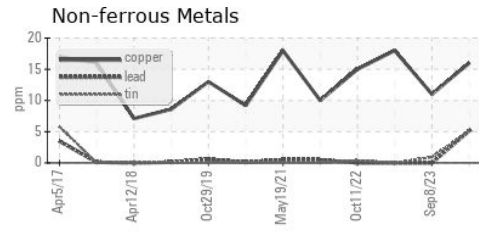
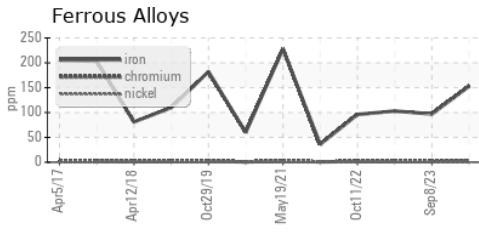
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	● MILKY	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.25	▲ 0.2%	▲ 0.2%
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 328	● 132	● 123	● 56.8

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0919074 **Received** : 09 Apr 2024
Lab Number : 06142923 **Tested** : 11 Apr 2024
Unique Number : 10967731 **Diagnosed** : 11 Apr 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: KF, PrtCount)

CAROLINA SUNROCK
 PO BOX 25
 BUTNER, NC
 US 27509

Contact: Leigh Dennis
 rdennis@thesunrockgroup.com
 T: (919)575-4505
 F: (919)575-0162

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)