



# OIL ANALYSIS REPORT

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



Area  
**Mobile Fleet**  
Machine Id  
**345 345**  
Component  
**Hydraulic System**  
Fluid  
**MOBIL HYDRAULIC 10W (37 GAL)**

## RECOMMENDATION

No corrective action is recommended at this time. The 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>WC0939280</b>	WC0819196	WC0740720
Sample Date		Client Info		<b>16 May 2024</b>	22 Jun 2023	16 Sep 2022
Machine Age	hrs	Client Info		<b>31225</b>	30695	30119
Oil Age	hrs	Client Info		<b>1129</b>	599	2112
Filter Age	hrs	Client Info		<b>1129</b>	599	0
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>14</b>	11	▲ 25
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
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>3</b>	2	6
Lead	ppm	ASTM D5185m	>10	<b>2</b>	0	<1
Copper	ppm	ASTM D5185m	>75	<b>4</b>	2	6
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>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

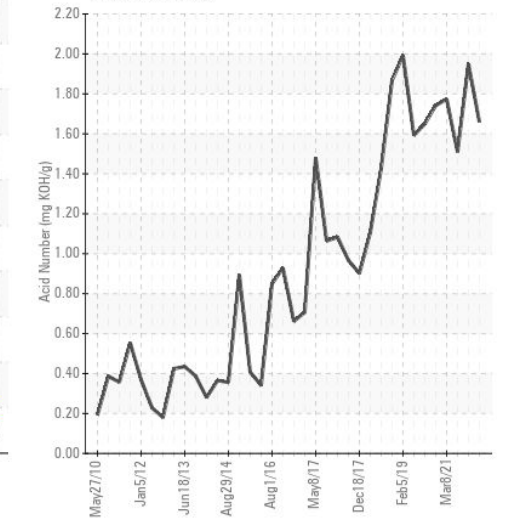
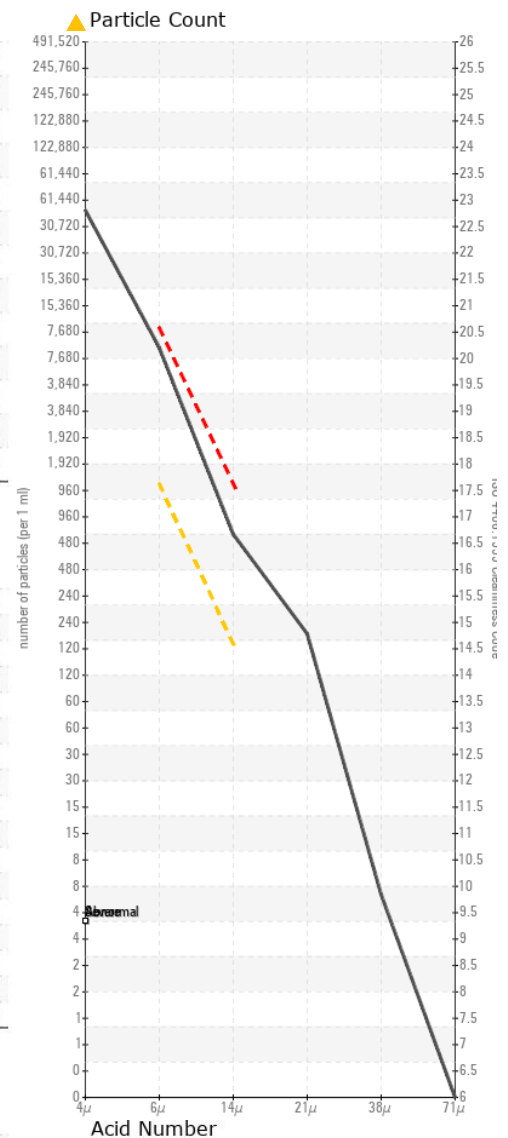
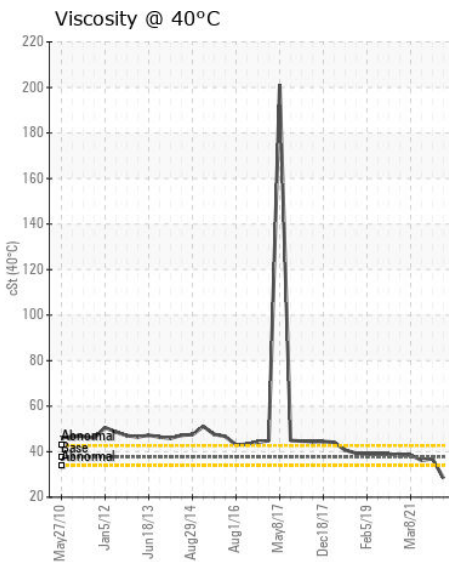
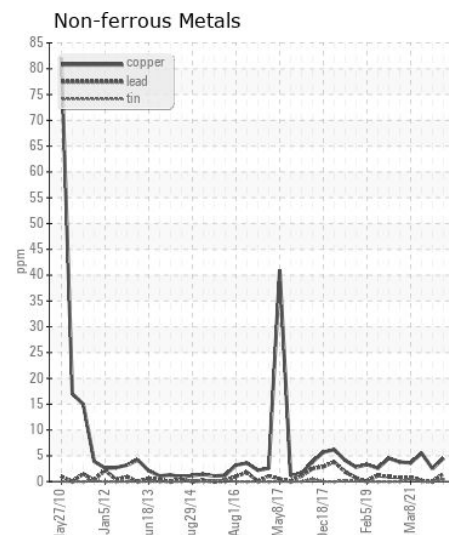
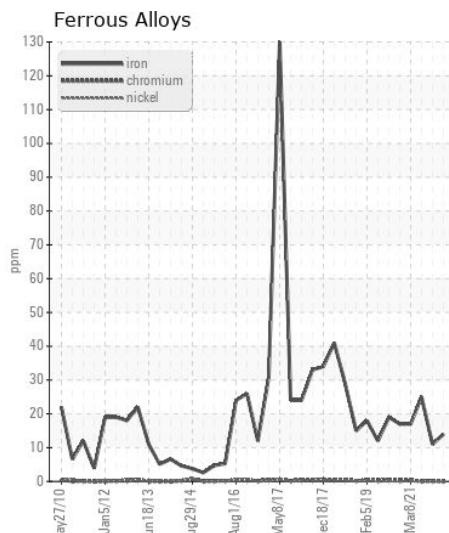
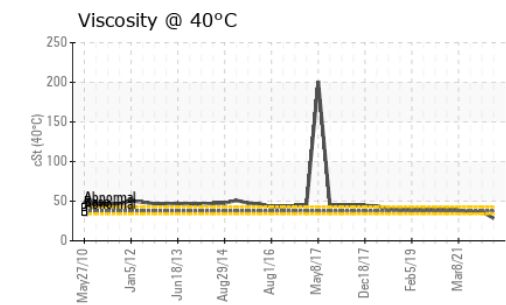
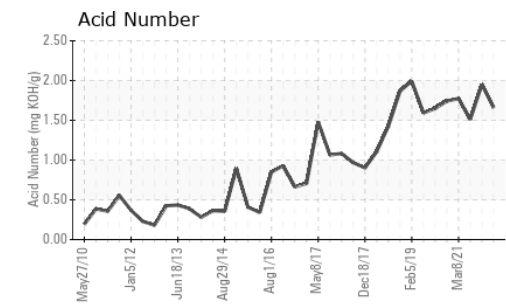
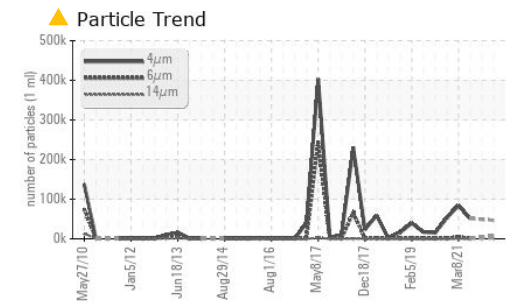
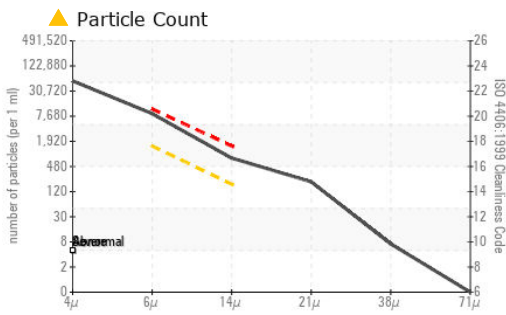
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>10</b>	6	12
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647		<b>46565</b>	---	51117
Particles >6µm		ASTM D7647	>1300	<b>▲ 7704</b>	---	1256
Particles >14µm		ASTM D7647	>160	<b>▲ 671</b>	---	50
Particles >21µm		ASTM D7647	>40	<b>▲ 182</b>	---	9
Particles >38µm		ASTM D7647	>10	<b>6</b>	---	1
Particles >71µm		ASTM D7647	>3	<b>0</b>	---	0
Oil Cleanliness		ISO 4406 (c)	>-/17/14	<b>▲ 23/20/17</b>	---	23/17/13
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	▲ HEAVY	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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>1</b>	1	2
Boron	ppm	ASTM D5185m		<b>&lt;1</b>	0	4
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>2</b>	1	2
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>757</b>	760	689
Calcium	ppm	ASTM D5185m		<b>88</b>	68	166
Phosphorus	ppm	ASTM D5185m		<b>1124</b>	1137	999
Zinc	ppm	ASTM D5185m		<b>1285</b>	1435	1165
Sulfur	ppm	ASTM D5185m		<b>8051</b>	9445	7210
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.66</b>	1.95	1.51
Visc @ 40°C	cSt	ASTM D445	37.7	<b>28.4</b>	36.9	36.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0939280  
**Lab Number** : 06186009  
**Unique Number** : 11042761  
**Test Package** : CONST  
**Received** : 21 May 2024  
**Tested** : 22 May 2024  
**Diagnosed** : 23 May 2024 - Don Baldrige

**CAROLINA SUNROCK**  
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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)