



# OIL ANALYSIS REPORT

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



Area  
**Mobile Fleet**  
Machine Id  
**5009 5009**  
Component  
**Hydraulic System**  
Fluid  
**MOBIL HYDRAULIC 10W (90 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>WC0919095</b>	WC0744829	WC0716714
Sample Date		Client Info		<b>12 Apr 2024</b>	03 Oct 2022	25 Aug 2022
Machine Age	hrs	Client Info		<b>14974</b>	11484	11298
Oil Age	hrs	Client Info		<b>1579</b>	210	548
Filter Age	hrs	Client Info		<b>1579</b>	210	548
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>26	<b>9</b>	7	10
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>10	<b>2</b>	0	2
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>11	<b>0</b>	1	<1
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>31	<b>2</b>	15	35
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

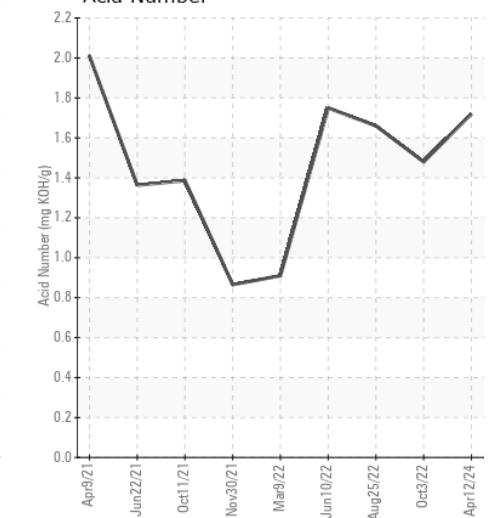
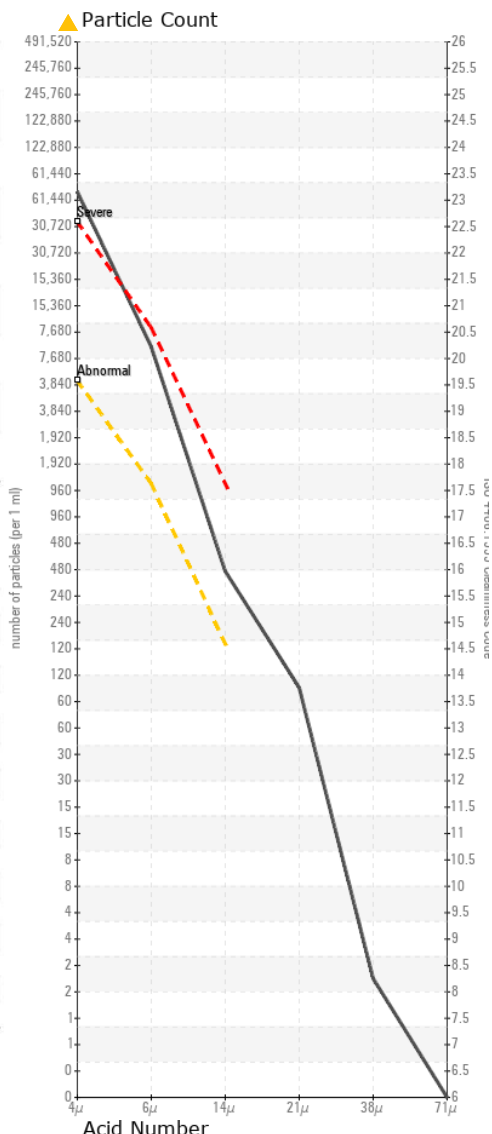
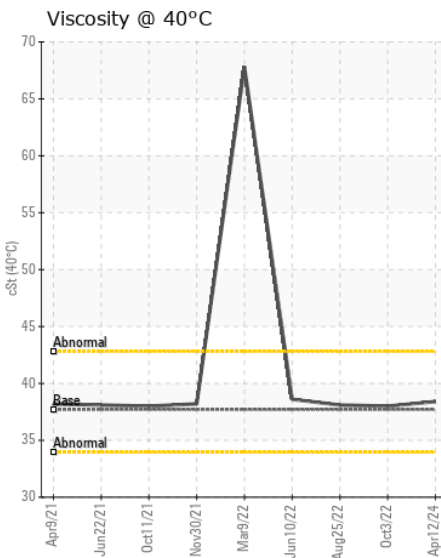
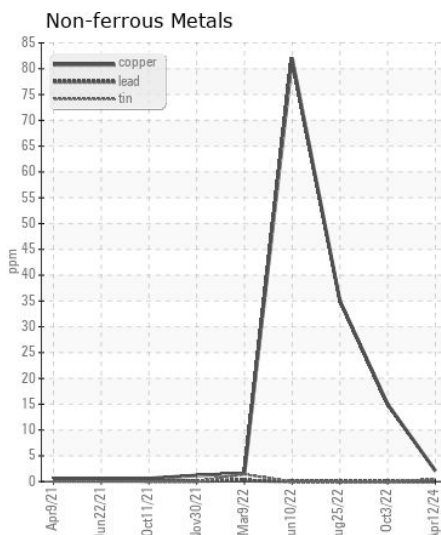
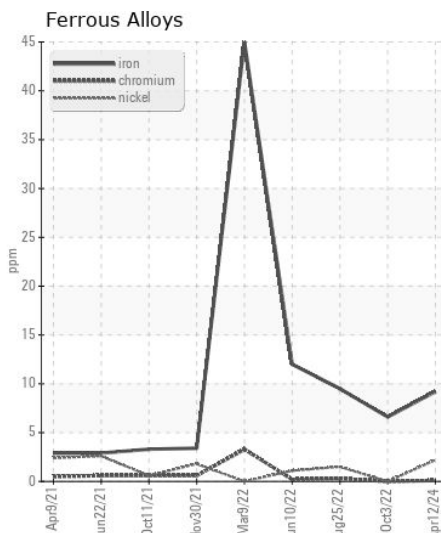
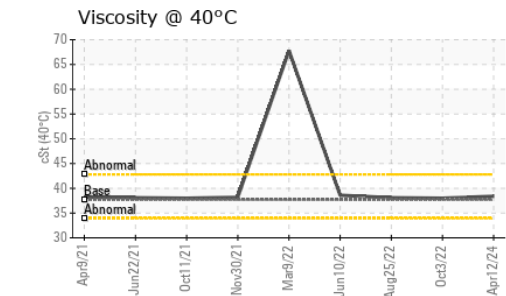
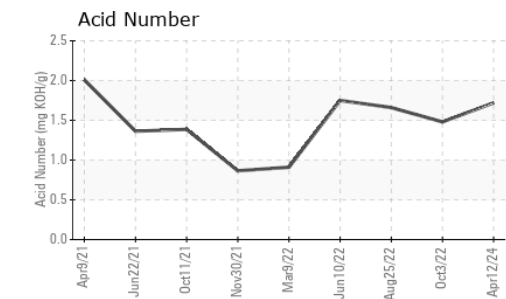
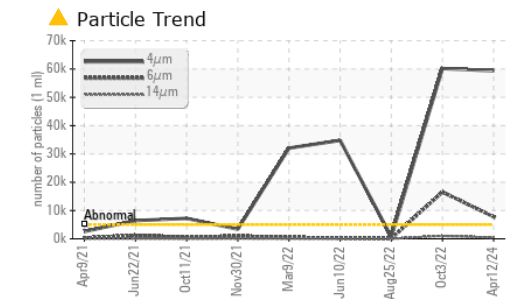
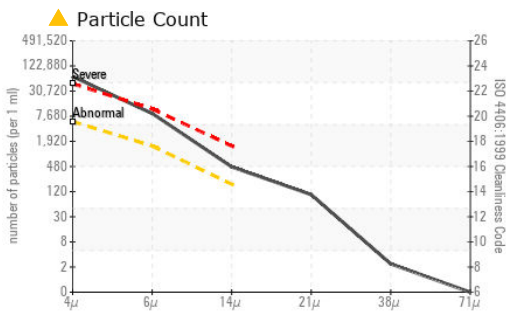
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>21	<b>4</b>	5	7
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>▲ 59362</b>	▲ 60169	715
Particles >6µm		ASTM D7647	>1300	<b>▲ 7781</b>	▲ 16537	85
Particles >14µm		ASTM D7647	>160	<b>▲ 413</b>	▲ 1031	6
Particles >21µm		ASTM D7647	>40	<b>▲ 90</b>	▲ 221	3
Particles >38µm		ASTM D7647	>10	<b>2</b>	5	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 23/20/16</b>	▲ 23/21/17	17/14/10
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	>0.1	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>2</b>	0	<1
Boron	ppm	ASTM D5185m		<b>2</b>	4	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>2</b>	3	3
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>629</b>	677	670
Calcium	ppm	ASTM D5185m		<b>70</b>	124	95
Phosphorus	ppm	ASTM D5185m		<b>920</b>	1082	1064
Zinc	ppm	ASTM D5185m		<b>1051</b>	1248	1229
Sulfur	ppm	ASTM D5185m		<b>6519</b>	8240	6581
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.72</b>	1.48	1.66
Visc @ 40°C	cSt	ASTM D445	37.7	<b>38.4</b>	38.0	38.1



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0919095  
**Lab Number** : 06150202  
**Unique Number** : 10980280  
**Test Package** : CONST  
**Received** : 16 Apr 2024  
**Tested** : 17 Apr 2024  
**Diagnosed** : 18 Apr 2024 - Don Baldrige

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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)