



# OIL ANALYSIS REPORT

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



Area  
**Mobile Fleet**  
Machine Id  
**5107 5107**  
Component  
**Hydraulic System**  
Fluid  
**MOBIL HYDRAULIC 10W (46 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0885978</b>	WC0862109	WC0819075
Sample Date		Client Info		<b>05 Jan 2024</b>	28 Sep 2023	13 Jun 2023
Machine Age	hrs	Client Info		<b>11391</b>	10790	10232
Oil Age	hrs	Client Info		<b>1159</b>	558	2392
Filter Age	hrs	Client Info		<b>1159</b>	558	2392
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>71	<b>12</b>	10	15
Chromium	ppm	ASTM D5185m	>11	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>6	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>11	<b>2</b>	1	<1
Lead	ppm	ASTM D5185m	>13	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>21	<b>3</b>	4	4
Tin	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

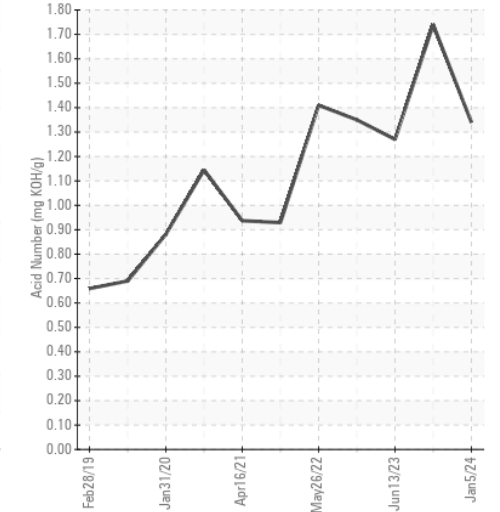
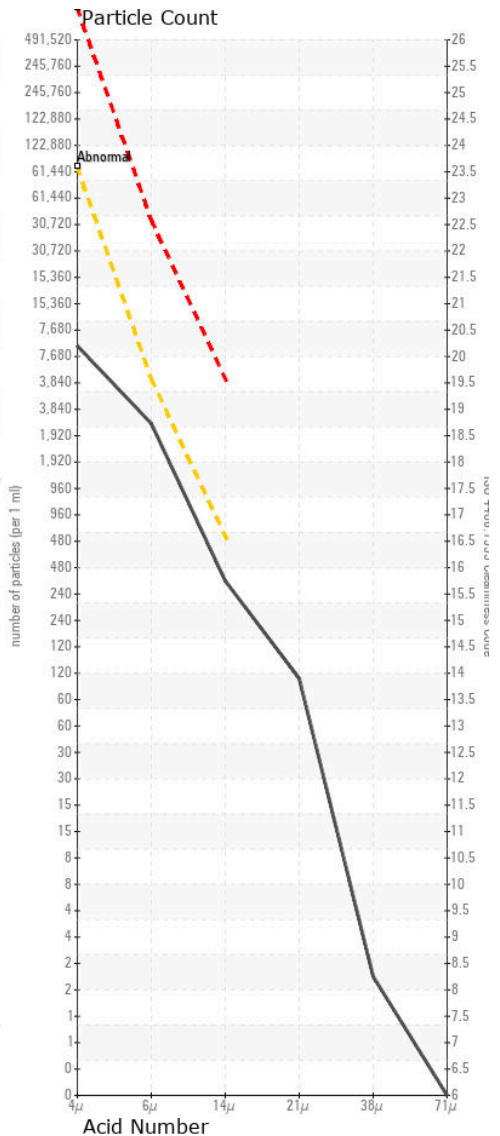
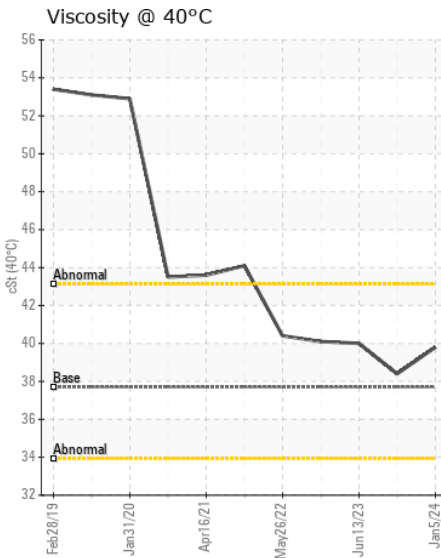
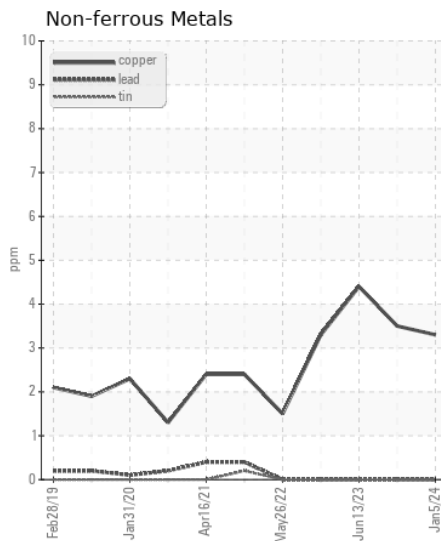
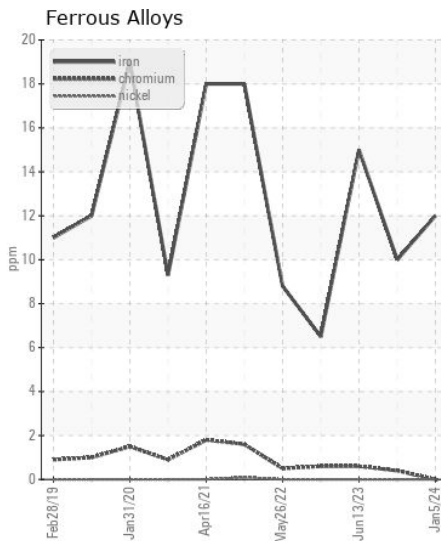
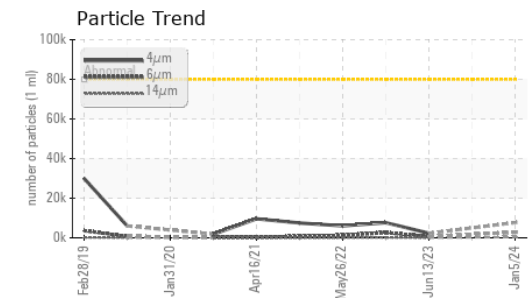
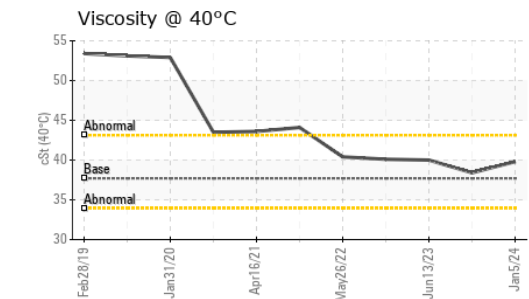
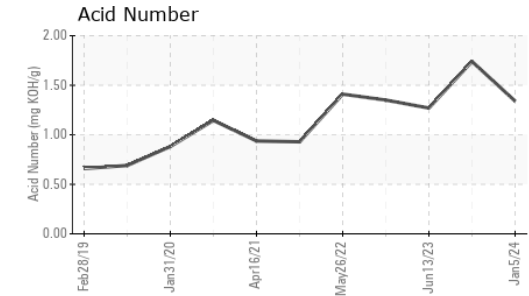
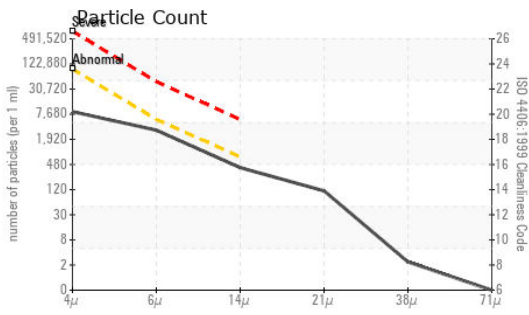
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>24	<b>11</b>	22	10
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	2	0
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>80000	<b>7688</b>	---	2326
Particles >6µm		ASTM D7647	>5000	<b>2781</b>	---	588
Particles >14µm		ASTM D7647	>640	<b>355</b>	---	34
Particles >21µm		ASTM D7647	>160	<b>99</b>	---	8
Particles >38µm		ASTM D7647	>40	<b>2</b>	---	0
Particles >71µm		ASTM D7647	>10	<b>0</b>	---	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	<b>20/19/16</b>	---	18/16/12
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	▲ MODER	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	>0.075	<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	>21	<b>2</b>	0	4
Boron	ppm	ASTM D5185m		<b>19</b>	9	10
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>7</b>	3	3
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>573</b>	638	579
Calcium	ppm	ASTM D5185m		<b>736</b>	239	565
Phosphorus	ppm	ASTM D5185m		<b>1141</b>	1059	998
Zinc	ppm	ASTM D5185m		<b>1179</b>	1204	1165
Sulfur	ppm	ASTM D5185m		<b>6166</b>	6512	6788
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.34</b>	1.74	1.27
Visc @ 40°C	cSt	ASTM D445	37.7	<b>39.8</b>	38.4	40.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0885978 **Received** : 09 Jan 2024  
**Lab Number** : 06055842 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 10821791 **Diagnostician** : Don Baldrige  
**Test Package** : CONST

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)

**CAROLINA SUNROCK**  
 PO BOX 25  
 BUTNER, NC  
 US 27509

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