



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**Mobile Fleet**  
 Machine Id  
**6406 6406**  
 Component  
**Hydraulic System**  
 Fluid  
**MOBIL MOBILFLUID 424 (23 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0937864</b>	WC0861565	WC0861976
Sample Date		Client Info		<b>01 Jul 2024</b>	13 Mar 2024	13 Oct 2023
Machine Age	hrs	Client Info		<b>17431</b>	16817	15887
Oil Age	hrs	Client Info		<b>614</b>	930	1319
Filter Age	hrs	Client Info		<b>614</b>	930	1319
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>1</b>	6	18
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>1</b>	<1	1
Lead	ppm	ASTM D5185m	>10	<b>0</b>	<1	2
Copper	ppm	ASTM D5185m	>75	<b>32</b>	53	▲ 158
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

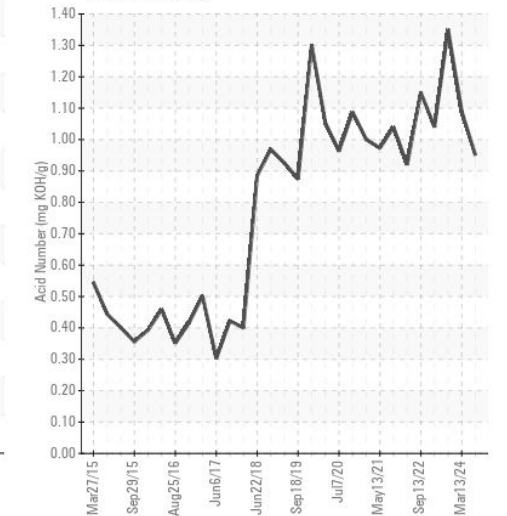
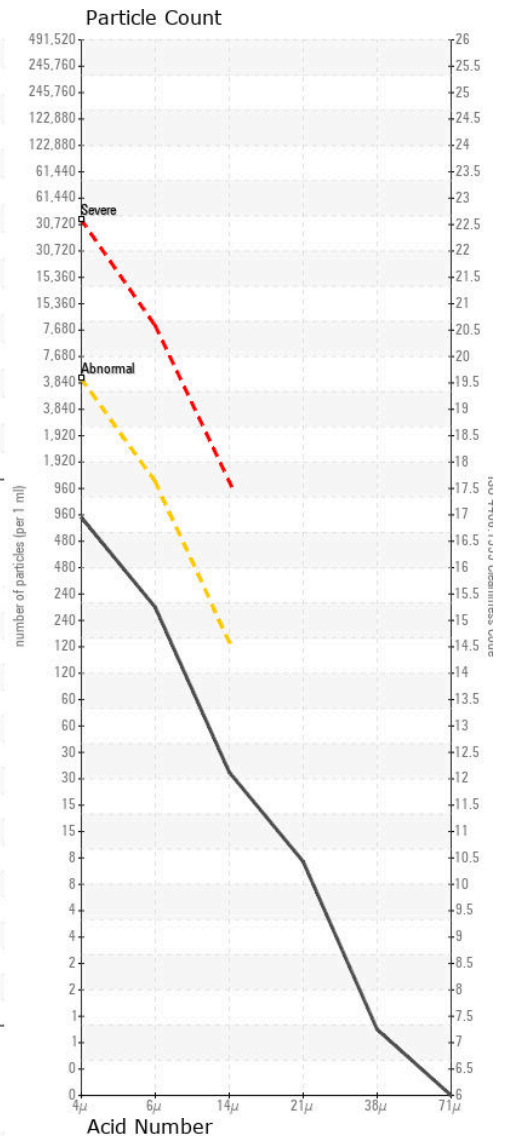
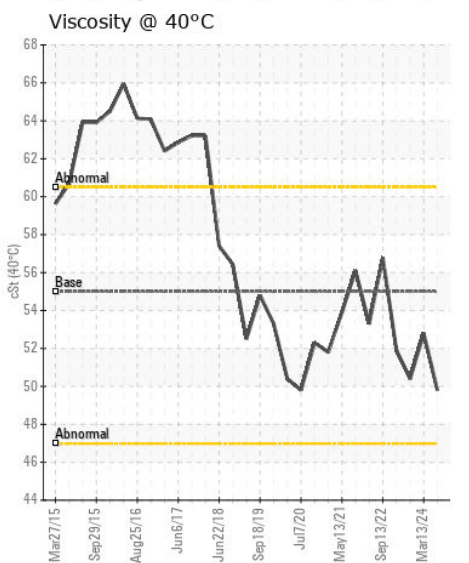
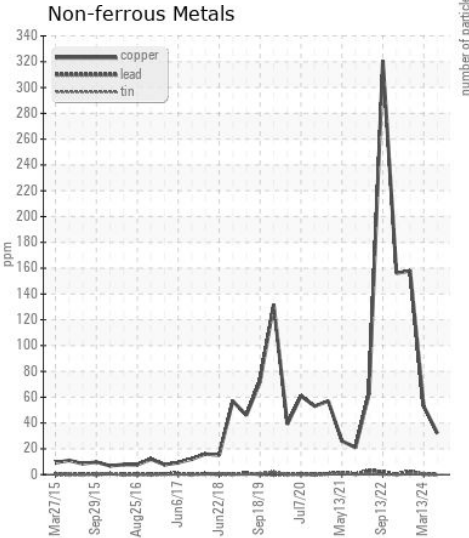
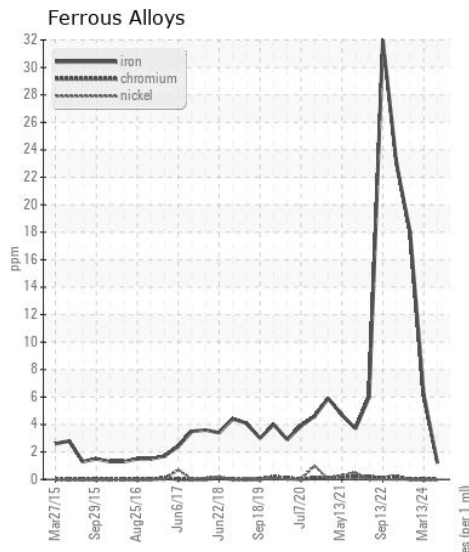
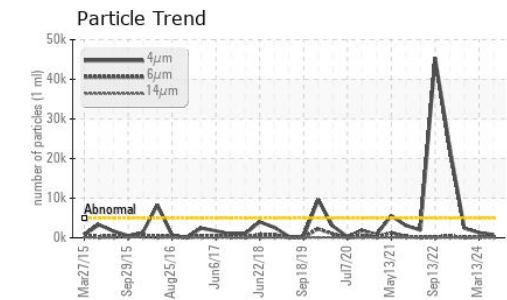
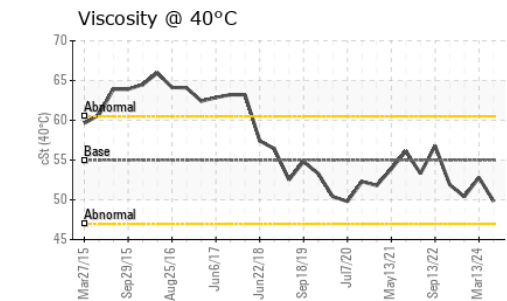
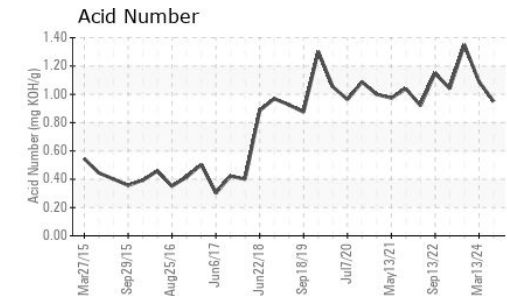
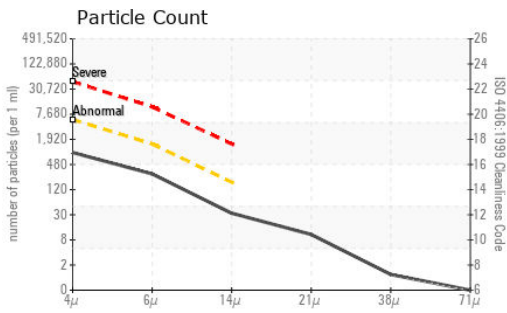
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>20	<b>13</b>	12	11
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>815</b>	1307	2394
Particles >6µm		ASTM D7647	>1300	<b>251</b>	238	62
Particles >14µm		ASTM D7647	>160	<b>29</b>	28	3
Particles >21µm		ASTM D7647	>40	<b>9</b>	9	1
Particles >38µm		ASTM D7647	>10	<b>1</b>	0	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>17/15/12</b>	18/15/12	18/13/9
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>1</b>	4	2
Boron	ppm	ASTM D5185m		<b>125</b>	121	118
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>25</b>	16	14
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>58</b>	55	62
Calcium	ppm	ASTM D5185m		<b>3470</b>	3146	3097
Phosphorus	ppm	ASTM D5185m		<b>1191</b>	1004	1020
Zinc	ppm	ASTM D5185m		<b>1431</b>	1140	1307
Sulfur	ppm	ASTM D5185m		<b>9320</b>	7515	7312
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.95</b>	1.09	1.35
Visc @ 40°C	cSt	ASTM D445	55	<b>49.8</b>	52.8	50.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0937864  
**Lab Number** : 06228423  
**Unique Number** : 11111916  
**Test Package** : CONST

**Received** : 05 Jul 2024  
**Tested** : 08 Jul 2024  
**Diagnosed** : 08 Jul 2024 - Jonathan Hester

**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)