



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**Mobile Fleet**  
 Machine Id  
**6444 6444**  
 Component  
**Hydraulic System**  
 Fluid  
**MOBIL MOBILFLUID 424 (20 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0919049</b>	WC0861641	WC0862130
Sample Date		Client Info		<b>15 Apr 2024</b>	07 Dec 2023	02 Oct 2023
Machine Age	hrs	Client Info		<b>8262</b>	7654	7236
Oil Age	hrs	Client Info		<b>613</b>	1214	796
Filter Age	hrs	Client Info		<b>613</b>	1214	796
Oil Changed		Client Info		<b>Changed</b>	Changed	Not Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Not Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>2</b>	0	4
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
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>&lt;1</b>	1	5
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>75	<b>&lt;1</b>	4	2
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

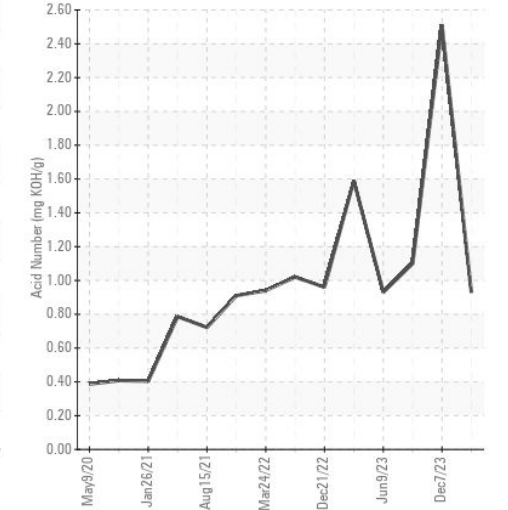
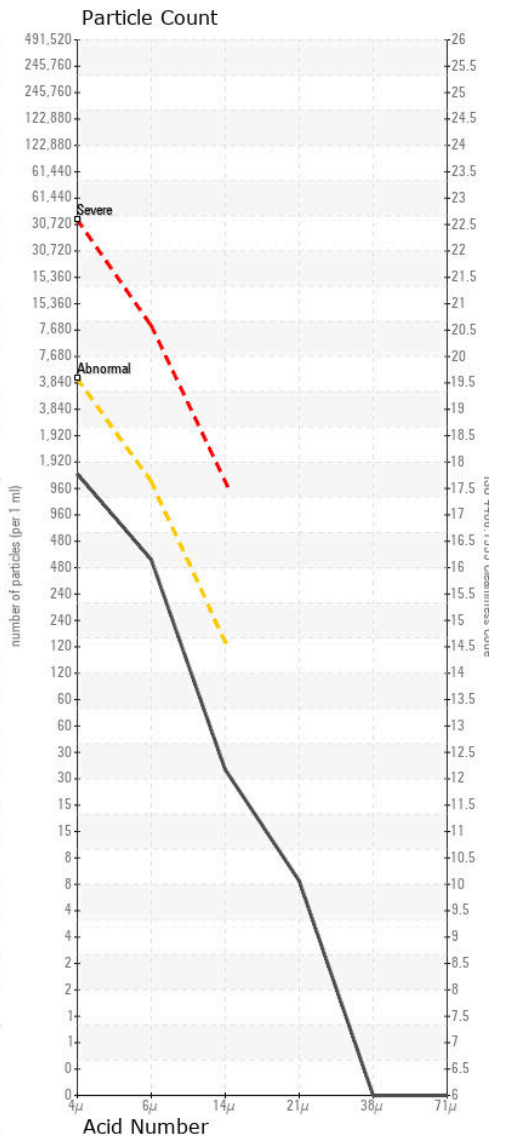
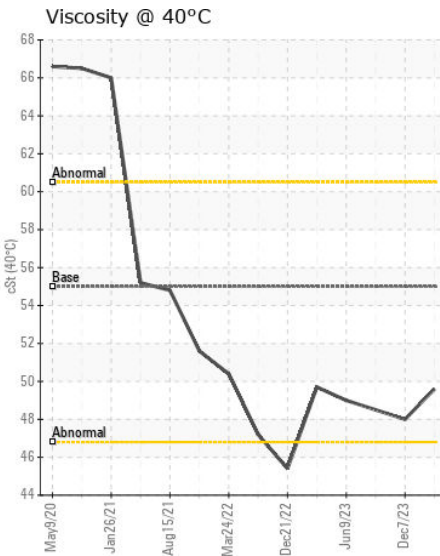
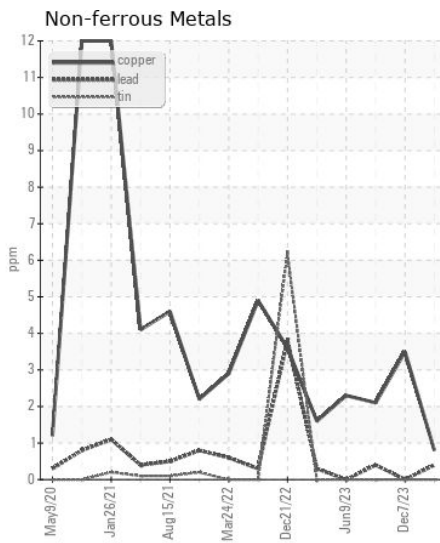
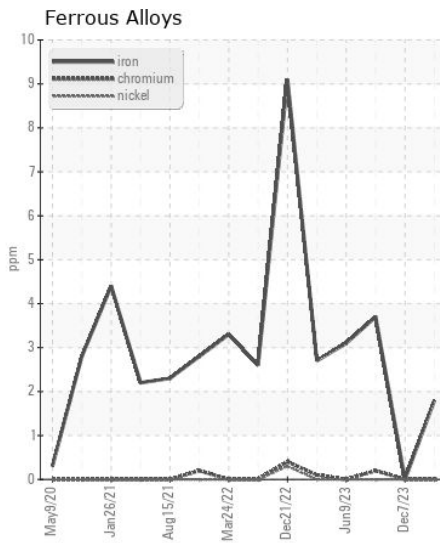
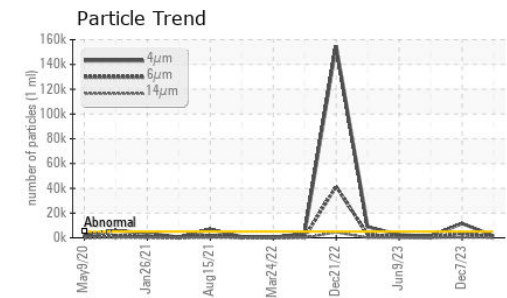
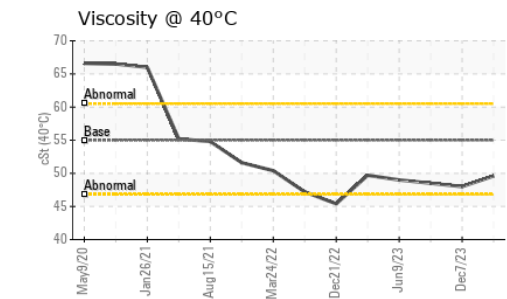
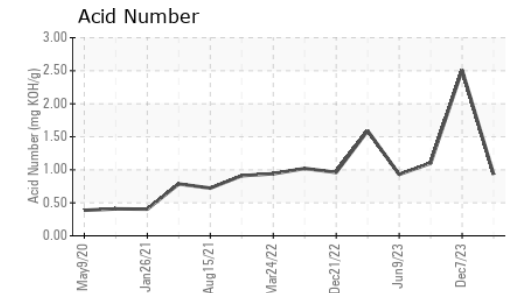
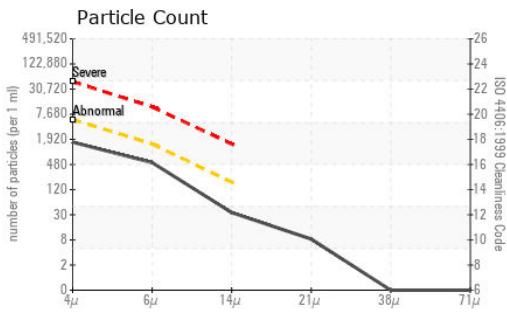
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>20	<b>9</b>	8	8
Potassium	ppm	ASTM D5185m	>20	<b>9</b>	0	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>1439</b>	▲ 11577	1279
Particles >6µm		ASTM D7647	>1300	<b>468</b>	▲ 3515	362
Particles >14µm		ASTM D7647	>160	<b>30</b>	▲ 269	27
Particles >21µm		ASTM D7647	>40	<b>7</b>	▲ 65	10
Particles >38µm		ASTM D7647	>10	<b>0</b>	4	1
Particles >71µm		ASTM D7647	>3	<b>0</b>	2	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>18/16/12</b>	▲ 21/19/15	17/16/12
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>3</b>	3	<1
Boron	ppm	ASTM D5185m		<b>104</b>	122	134
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>22</b>	19	20
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>59</b>	63	60
Calcium	ppm	ASTM D5185m		<b>2974</b>	3320	3224
Phosphorus	ppm	ASTM D5185m		<b>963</b>	1134	1089
Zinc	ppm	ASTM D5185m		<b>1147</b>	1425	1411
Sulfur	ppm	ASTM D5185m		<b>7338</b>	7443	8932
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.93</b>	2.51	1.10
Visc @ 40°C	cSt	ASTM D445	55	<b>49.6</b>	48.0	48.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0919049  
**Lab Number** : 06151863  
**Unique Number** : 10981941  
**Test Package** : CONST

**Received** : 17 Apr 2024  
**Tested** : 18 Apr 2024  
**Diagnosed** : 19 Apr 2024 - Don Baldrige

**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)