



# OIL ANALYSIS REPORT

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

Area  
**Mobile Fleet**  
 Machine Id  
**6456 6456**  
 Component  
**Hydraulic System**  
 Fluid  
**MOBIL MOBILFLUID 424 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0937795</b>	WC0919021	WC0862104
Sample Date		Client Info		<b>20 May 2024</b>	29 Mar 2024	26 Sep 2023
Machine Age	hrs	Client Info		<b>2956</b>	2783	2032
Oil Age	hrs	Client Info		<b>933</b>	760	561
Filter Age	hrs	Client Info		<b>933</b>	760	561
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ATTENTION

## WEAR

All component wear rates are normal.

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

## CONTAMINATION

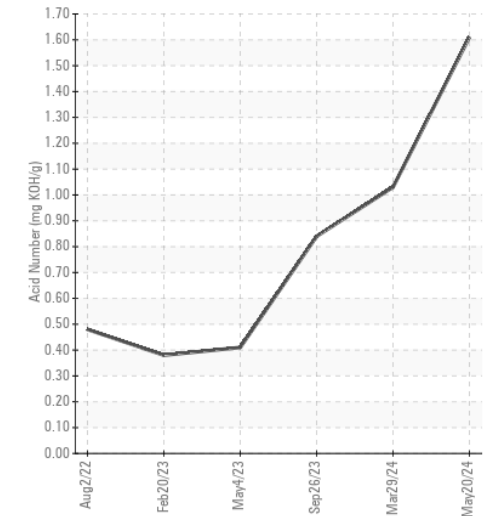
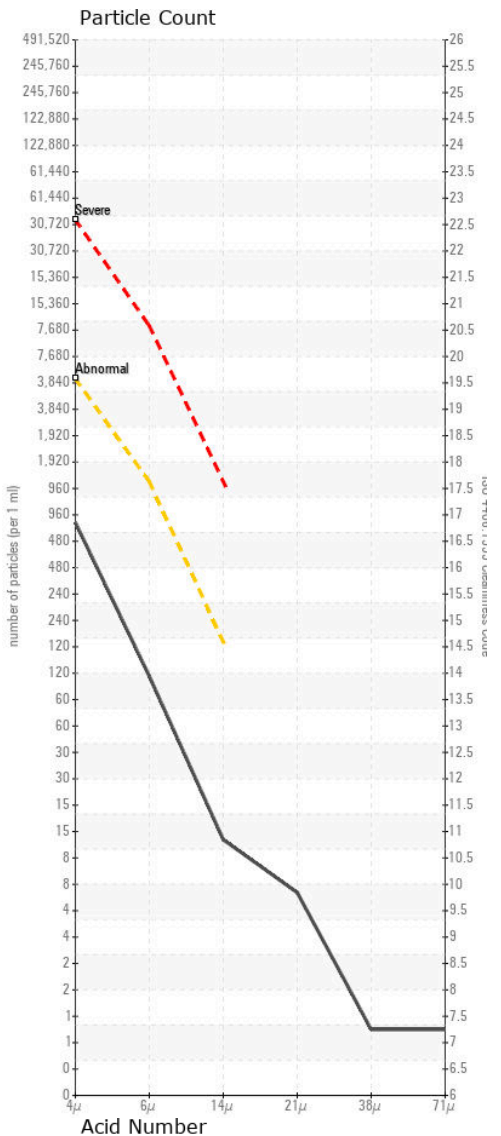
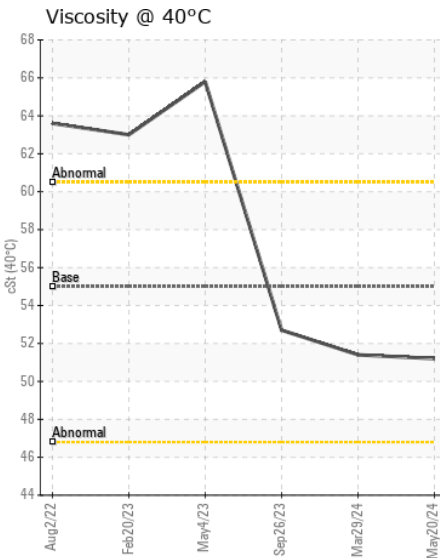
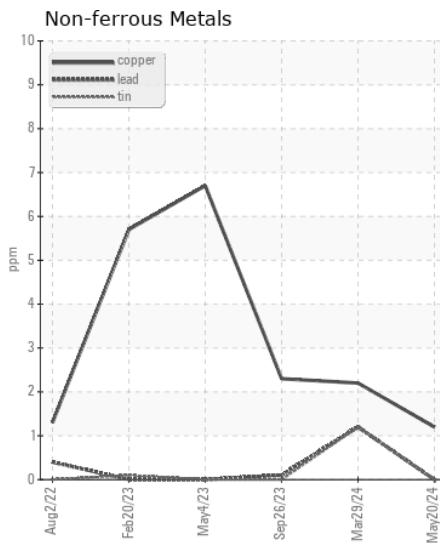
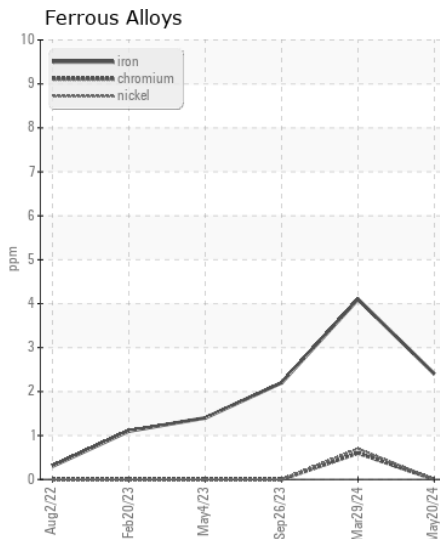
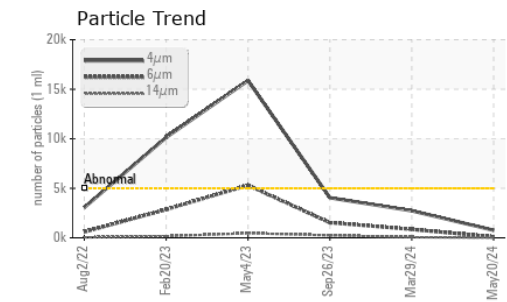
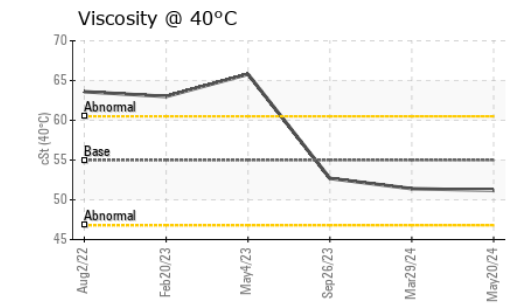
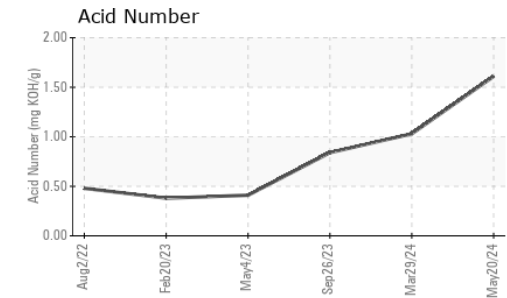
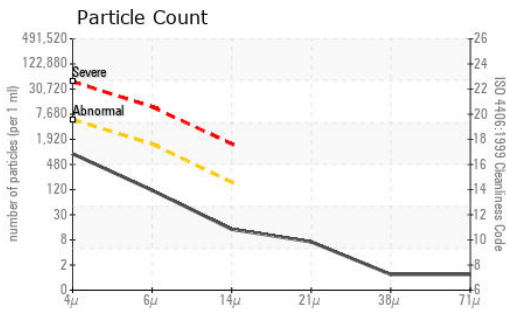
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>20	<b>9</b>	8	7
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	2	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>763</b>	2732	4046
Particles >6µm		ASTM D7647	>1300	<b>102</b>	855	1529
Particles >14µm		ASTM D7647	>160	<b>12</b>	61	248
Particles >21µm		ASTM D7647	>40	<b>6</b>	11	73
Particles >38µm		ASTM D7647	>10	<b>1</b>	0	1
Particles >71µm		ASTM D7647	>3	<b>1</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>17/14/11</b>	19/17/13	19/18/15
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	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>	0	2
Boron	ppm	ASTM D5185m		<b>124</b>	111	101
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>13</b>	14	18
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>69</b>	83	39
Calcium	ppm	ASTM D5185m		<b>3111</b>	3160	2644
Phosphorus	ppm	ASTM D5185m		<b>1092</b>	1136	921
Zinc	ppm	ASTM D5185m		<b>1332</b>	1314	1177
Sulfur	ppm	ASTM D5185m		<b>7858</b>	7914	6399
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.61</b>	1.03	0.84
Visc @ 40°C	cSt	ASTM D445	55	<b>51.2</b>	51.4	52.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0937795

Lab Number : 06187528

Unique Number : 11044280

Test Package : CONST

Received : 22 May 2024

Tested : 23 May 2024

Diagnosed : 24 May 2024 - Don Baldrige

CAROLINA SUNROCK

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US 27509

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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)