



# OIL ANALYSIS REPORT

WEAR	ATTENTION
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area

**Mobile Fleet**

Machine Id

**6415 6415**

Component

**Transmission (Auto)**

Fluid

**MOBIL DELVAC SYNTHETIC ATF (8 GAL)**

## RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0861926</b>	WC0808847	WC0726422
Sample Date		Client Info		<b>03 Jan 2024</b>	09 May 2023	02 Aug 2022
Machine Age	hrs	Client Info		<b>15029</b>	14058	12812
Oil Age	hrs	Client Info		<b>988</b>	1251	4138
Filter Age	hrs	Client Info		<b>988</b>	1251	1859
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Sample Status				<b>SEVERE</b>	NORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>300	<b>139</b>	68	124
Chromium	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	>3	<b>1</b>	0	0
Silver	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>70	<b>▲ 51</b>	21	33
Lead	ppm	ASTM D5185m	>85	<b>8</b>	8	21
Copper	ppm	ASTM D5185m	>90	<b>22</b>	28	105
Tin	ppm	ASTM D5185m	>10	<b>2</b>	2	4
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

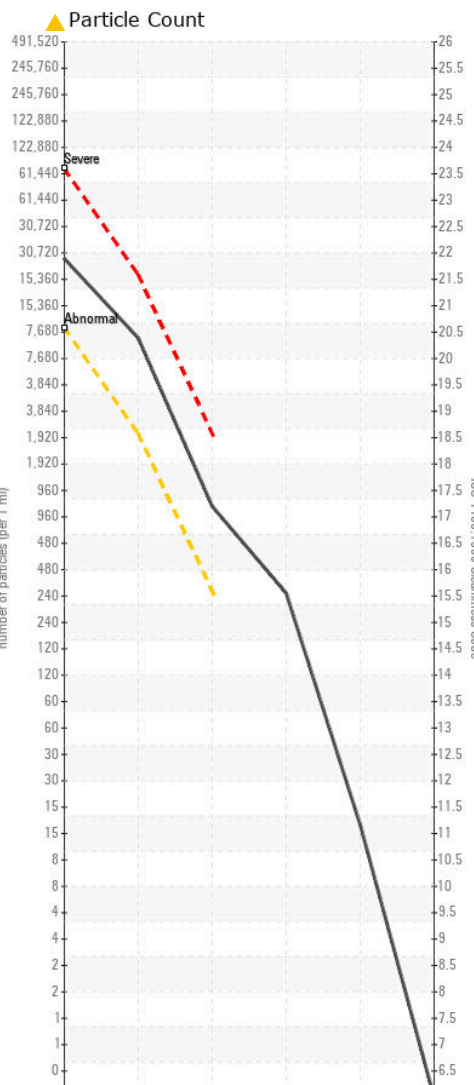
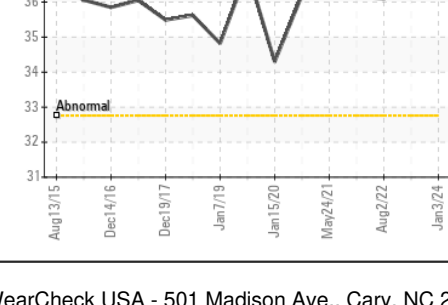
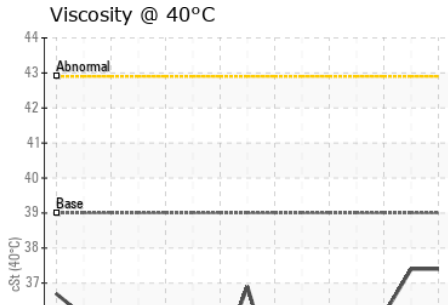
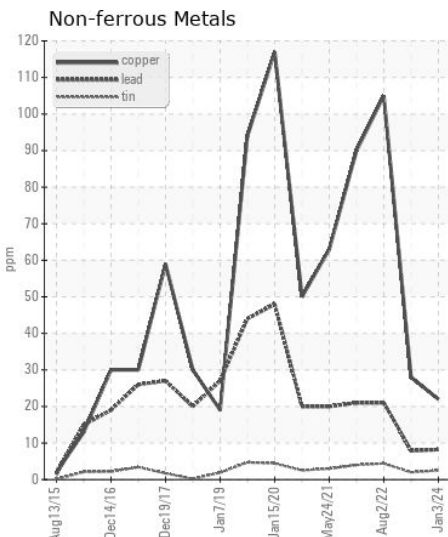
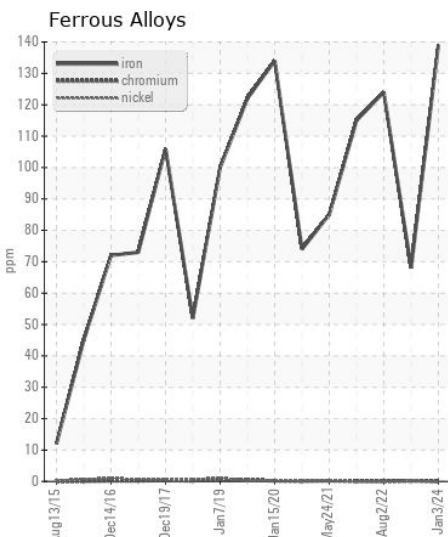
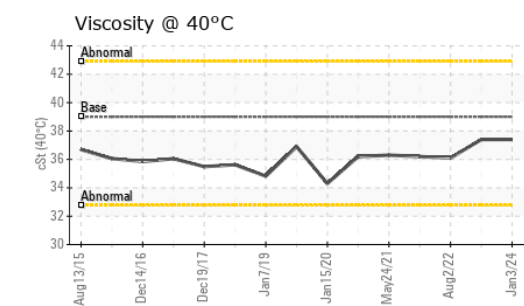
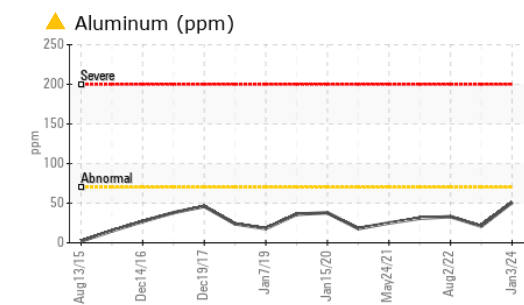
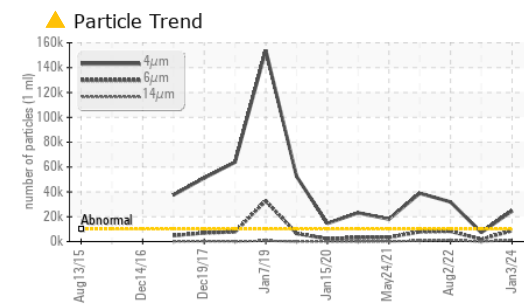
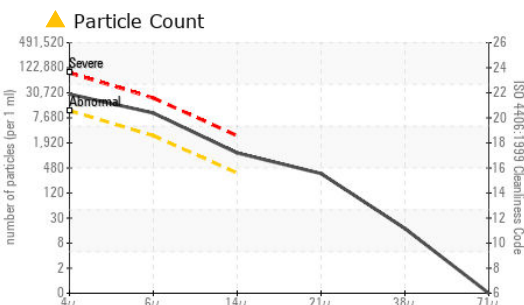
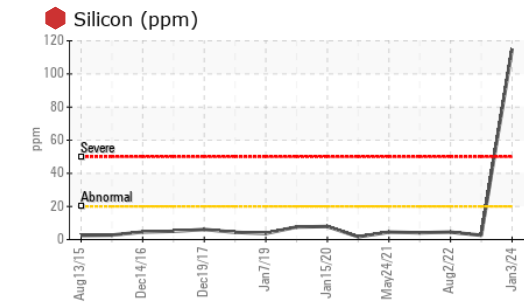
There is a high amount of particulates present in the fluid. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>20	<b>◆ 115</b>	3	4
Potassium	ppm	ASTM D5185m	>20	<b>19</b>	1	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>10000	<b>▲ 24715</b>	7298	▲ 31926
Particles >6µm		ASTM D7647	>2500	<b>▲ 8736</b>	1826	▲ 8294
Particles >14µm		ASTM D7647	>320	<b>▲ 966</b>	65	▲ 1063
Particles >21µm		ASTM D7647	>80	<b>▲ 310</b>	9	▲ 241
Particles >38µm		ASTM D7647	>20	<b>15</b>	0	15
Particles >71µm		ASTM D7647	>4	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>▲ 22/20/17</b>	20/18/13	▲ 22/20/17
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
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 condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>10</b>	3	5
Boron	ppm	ASTM D5185m		<b>106</b>	155	163
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185m		<b>30</b>	19	3
Calcium	ppm	ASTM D5185m		<b>242</b>	222	94
Phosphorus	ppm	ASTM D5185m		<b>421</b>	371	339
Zinc	ppm	ASTM D5185m		<b>107</b>	101	9
Sulfur	ppm	ASTM D5185m		<b>1668</b>	1590	1872
Visc @ 40°C	cSt	ASTM D445	39	<b>37.4</b>	37.4	36.1



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0861926 **Received** : 09 Jan 2024  
**Lab Number** : 06055835 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 10821784 **Diagnostician** : Don Baldrige  
**Test Package** : CONST ( Additional Tests: Glycol, PrtCount )

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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)