



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area

**Mobile Fleet**

Machine Id

**8023 8023**

Component

**Rear Differential**

Fluid

**MOBIL DELVAC 1 SYNTHETIC GEAR SAE 75W90 (5 GAL)**

## RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0902905</b>	WC0819116	WC0657827
Sample Date		Client Info		<b>26 Feb 2024</b>	15 Jun 2023	09 Feb 2022
Machine Age	hrs	Client Info		<b>16540</b>	14951	12551
Oil Age	hrs	Client Info		<b>3979</b>	2390	3987
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>ATTENTION</b>	ABNORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>73</b>	57	106
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	<1	2
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	1	5
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>100	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	MODER	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

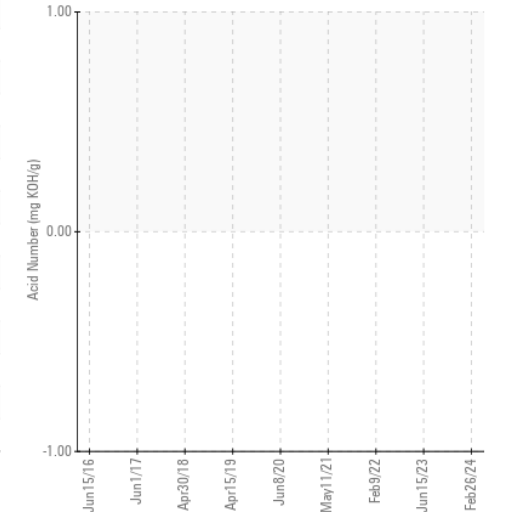
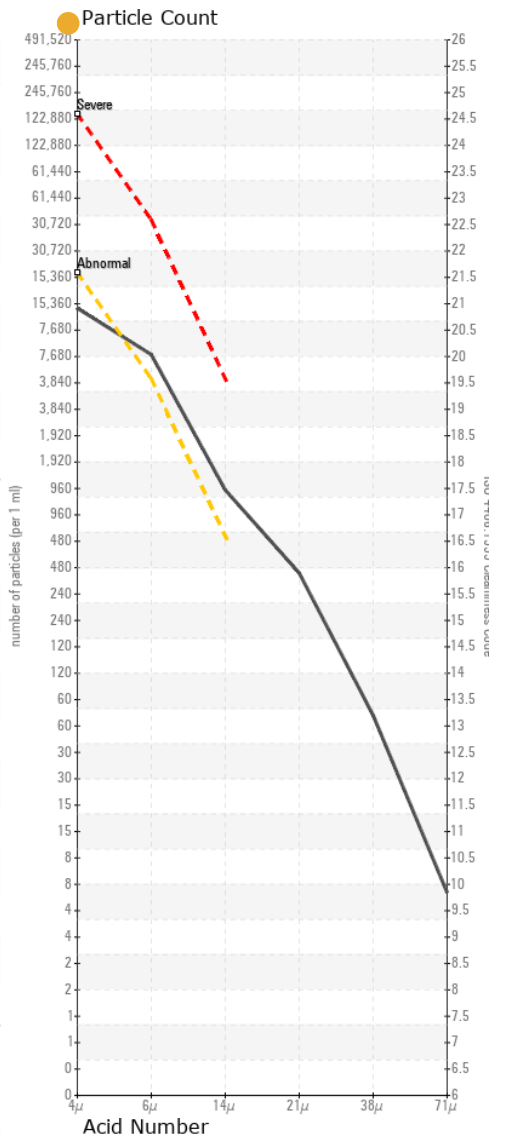
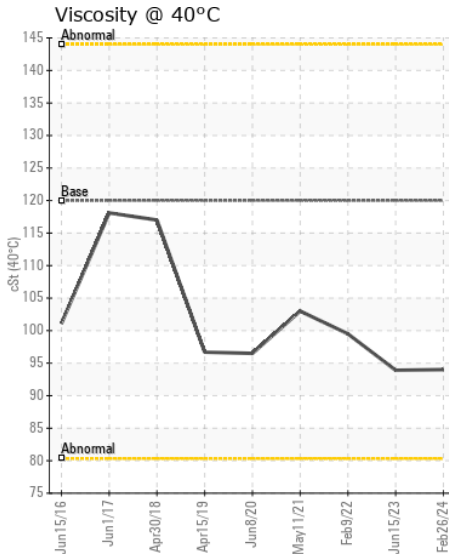
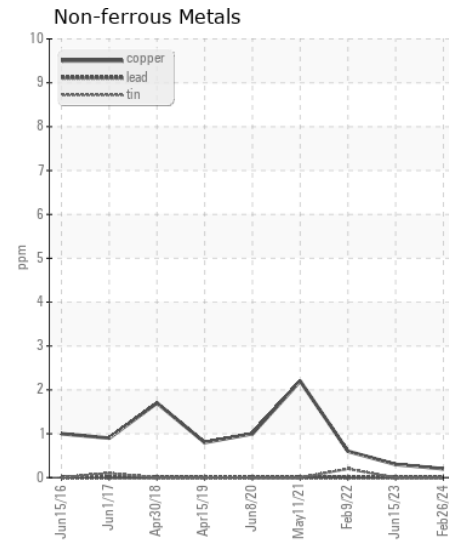
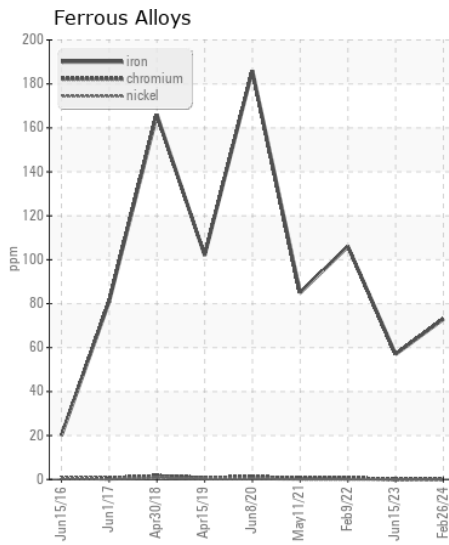
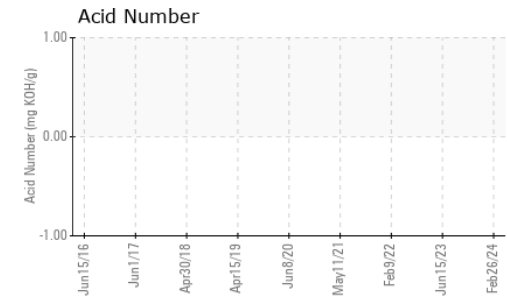
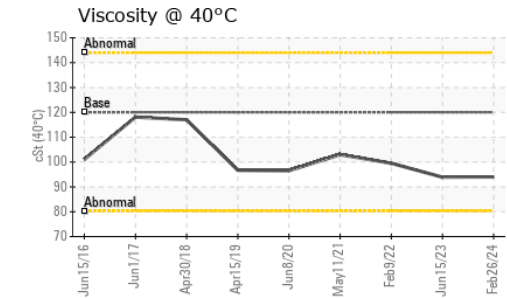
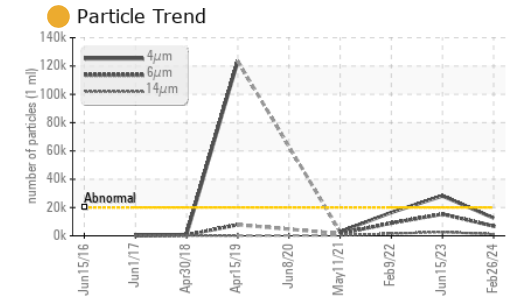
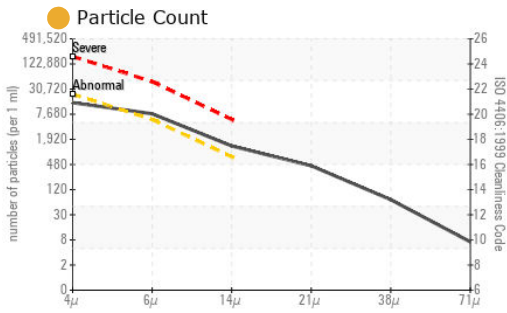
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>27</b>	26	29
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	1
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>20000	<b>12580</b>	28196	16503
Particles >6µm		ASTM D7647	>5000	<b>6853</b>	15360	8990
Particles >14µm		ASTM D7647	>640	<b>1166</b>	2614	1530
Particles >21µm		ASTM D7647	>160	<b>393</b>	881	515
Particles >38µm		ASTM D7647	>40	<b>61</b>	136	80
Particles >71µm		ASTM D7647	>10	<b>6</b>	14	8
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>21/20/17</b>	22/21/19	21/20/18
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	HEAVY	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	>.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>2</b>	0	2
Boron	ppm	ASTM D5185m		<b>242</b>	286	275
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	2	1
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	2
Magnesium	ppm	ASTM D5185m		<b>14</b>	11	19
Calcium	ppm	ASTM D5185m		<b>49</b>	47	70
Phosphorus	ppm	ASTM D5185m		<b>1235</b>	1179	1405
Zinc	ppm	ASTM D5185m		<b>35</b>	36	50
Sulfur	ppm	ASTM D5185m		<b>21521</b>	24004	20703
Visc @ 40°C	cSt	ASTM D445	120	<b>94.0</b>	93.9	99.5



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0902905 **Received** : 28 Feb 2024  
**Lab Number** : 06102848 **Tested** : 29 Feb 2024  
**Unique Number** : 10901078 **Diagnosed** : 29 Feb 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: 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)