



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area

**Mobile Fleet**

Machine Id

**8047 8047**

Component

**Front Differential**

Fluid

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

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0956067</b>	WC0765113	---
Sample Date		Client Info		<b>16 Jul 2024</b>	29 Mar 2023	---
Machine Age	hrs	Client Info		<b>3118</b>	11	---
Oil Age	hrs	Client Info		<b>3118</b>	0	---
Filter Age	hrs	Client Info		<b>3118</b>	0	---
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	---
Filter Changed		Client Info		<b>Not Changd</b>	N/A	---
Sample Status				<b>ATTENTION</b>	ABNORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>180</b>	32	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m	>25	<b>4</b>	<1	---
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>100	<b>2</b>	<1	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

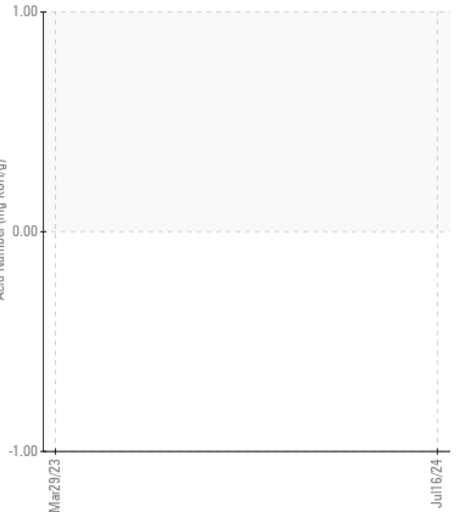
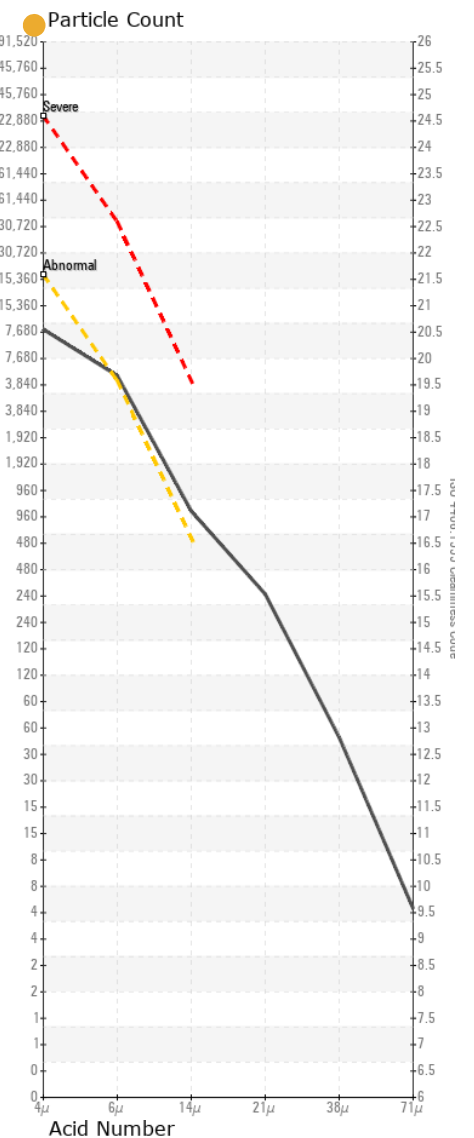
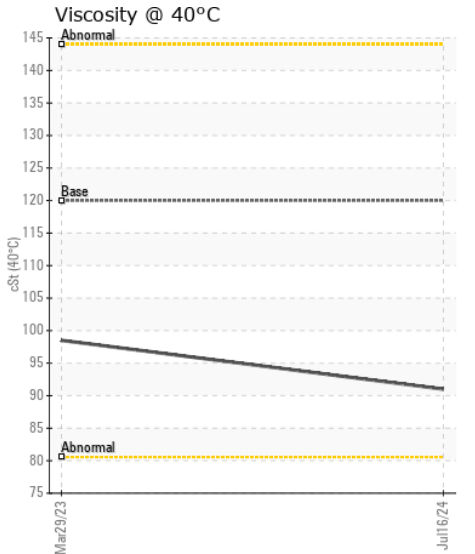
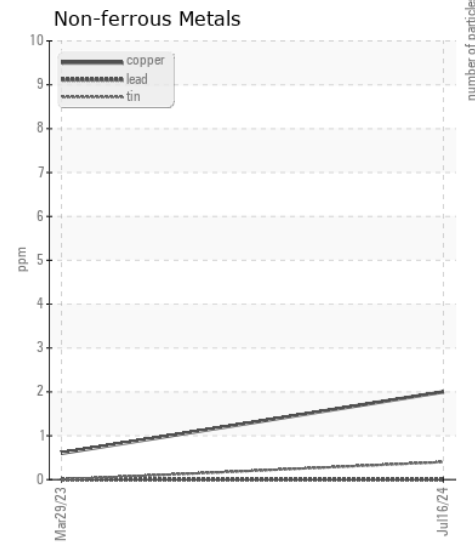
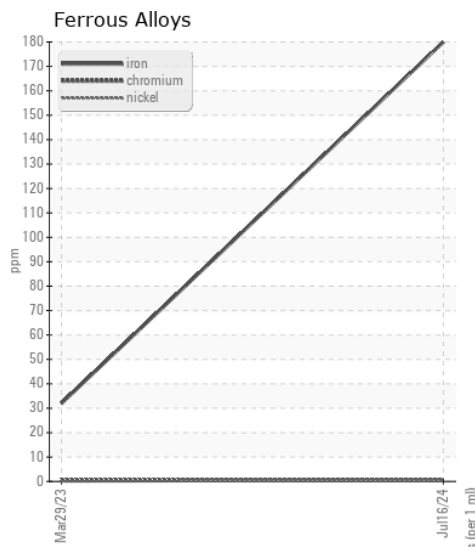
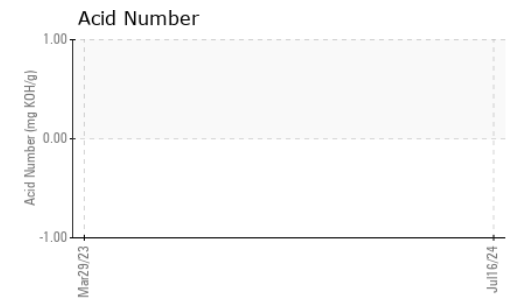
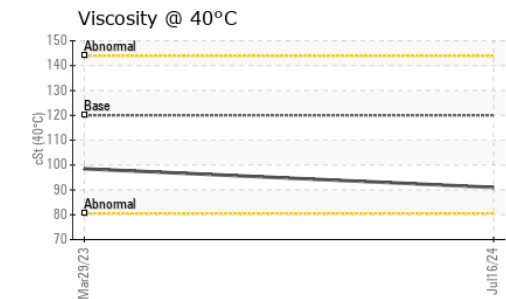
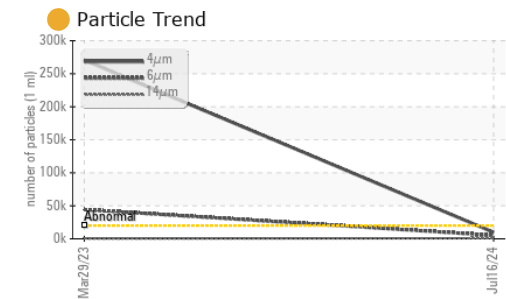
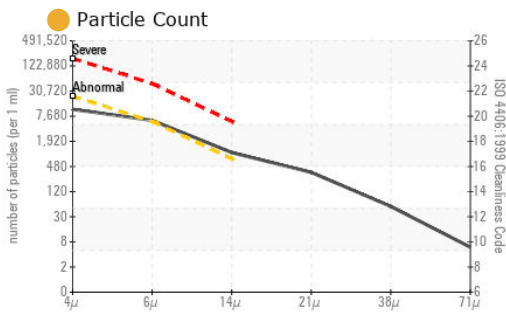
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>41</b>	14	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	---
Water		WC Method	>.2	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647	>20000	<b>9796</b>	▲ 270643	---
Particles >6µm		ASTM D7647	>5000	<b>5336</b>	▲ 44219	---
Particles >14µm		ASTM D7647	>640	<b>908</b>	455	---
Particles >21µm		ASTM D7647	>160	<b>306</b>	23	---
Particles >38µm		ASTM D7647	>40	<b>47</b>	1	---
Particles >71µm		ASTM D7647	>10	<b>5</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>20/20/17</b>	▲ 25/23/16	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>.2	<b>NEG</b>	NEG	---

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>4</b>	5	---
Boron	ppm	ASTM D5185m		<b>271</b>	289	---
Barium	ppm	ASTM D5185m		<b>2</b>	<1	---
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>7</b>	7	---
Magnesium	ppm	ASTM D5185m		<b>4</b>	3	---
Calcium	ppm	ASTM D5185m		<b>8</b>	12	---
Phosphorus	ppm	ASTM D5185m		<b>1308</b>	1490	---
Zinc	ppm	ASTM D5185m		<b>16</b>	14	---
Sulfur	ppm	ASTM D5185m		<b>22938</b>	30090	---
Visc @ 40°C	cSt	ASTM D445	120	<b>91.0</b>	98.5	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0956067 **Received** : 18 Jul 2024  
**Lab Number** : 06240168 **Tested** : 19 Jul 2024  
**Unique Number** : 11129002 **Diagnosed** : 19 Jul 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PrtCount )

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)

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