



# OIL ANALYSIS REPORT

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



Area  
**Mobile Fleet**  
Machine Id  
**5206 5206**  
Component  
**Rear Differential**  
Fluid  
**MOBIL MOBILTRANS HD 30 (11 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0947926</b>	WC0885970	WC0834905
Sample Date		Client Info		<b>27 Jun 2024</b>	19 Jan 2024	14 Jul 2023
Machine Age	hrs	Client Info		<b>11528</b>	11110	10599
Oil Age	hrs	Client Info		<b>929</b>	511	1277
Filter Age	hrs	Client Info		<b>0</b>	511	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>NORMAL</b>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>34</b>	48	33
Chromium	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>2</b>	2	3
Lead	ppm	ASTM D5185m	>13	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m	>103	<b>1</b>	3	2
Tin	ppm	ASTM D5185m	>5	<b>1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

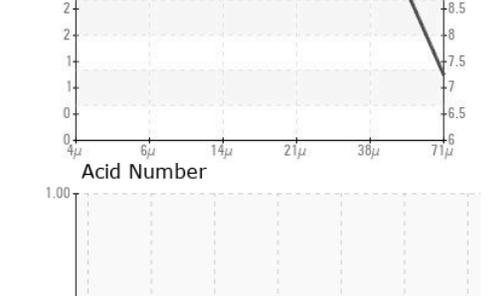
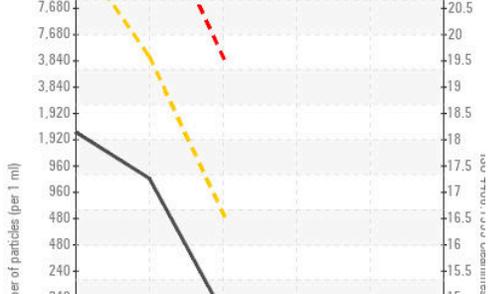
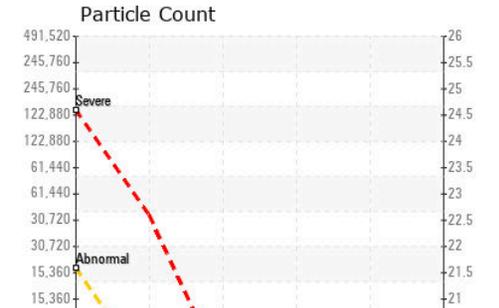
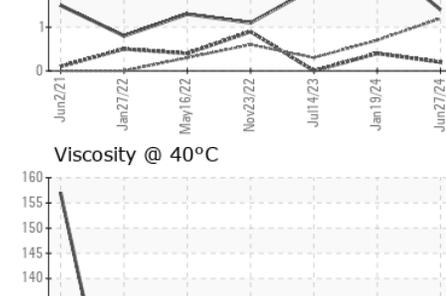
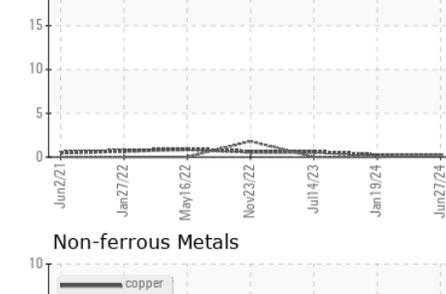
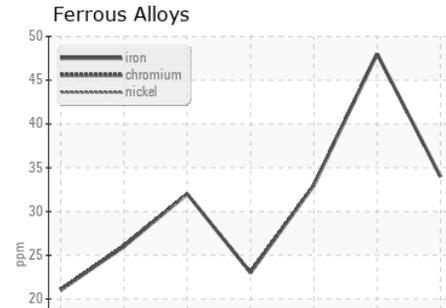
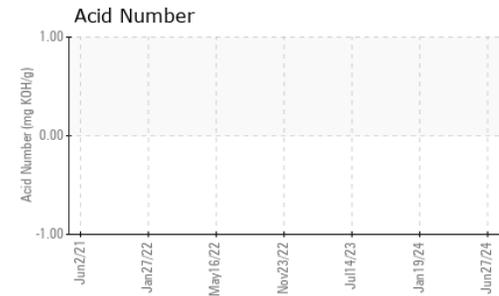
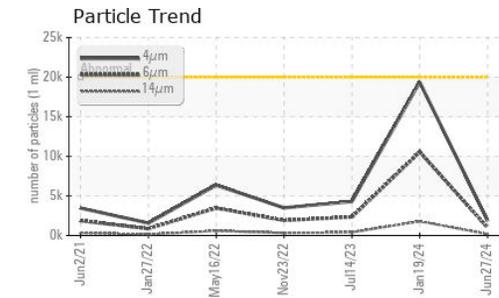
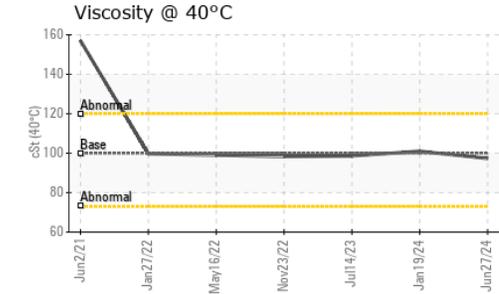
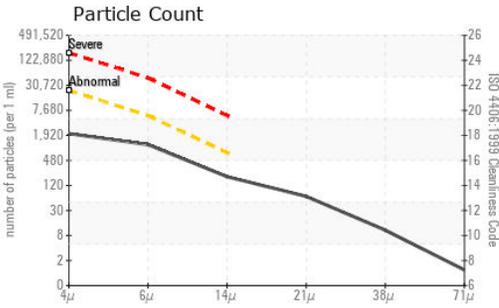
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>100	<b>14</b>	21	12
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	<1
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>20000	<b>1853</b>	19365	4298
Particles >6µm		ASTM D7647	>5000	<b>1009</b>	▲ 10549	2341
Particles >14µm		ASTM D7647	>640	<b>172</b>	▲ 1795	398
Particles >21µm		ASTM D7647	>160	<b>58</b>	▲ 605	134
Particles >38µm		ASTM D7647	>40	<b>9</b>	▲ 93	21
Particles >71µm		ASTM D7647	>10	<b>1</b>	▲ 10	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>18/17/15</b>	▲ 21/21/18	19/18/16
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>&lt;1</b>	2	<1
Boron	ppm	ASTM D5185m		<b>2</b>	1	<1
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	2
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>23</b>	24	45
Calcium	ppm	ASTM D5185m		<b>3655</b>	3330	3650
Phosphorus	ppm	ASTM D5185m		<b>997</b>	925	974
Zinc	ppm	ASTM D5185m		<b>1211</b>	1071	1221
Sulfur	ppm	ASTM D5185m		<b>13690</b>	10010	13465
Visc @ 40°C	cSt	ASTM D445	100	<b>97.3</b>	101	98.6



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0947926 **Received** : 01 Jul 2024  
**Lab Number** : 06224974 **Tested** : 03 Jul 2024  
**Unique Number** : 11103171 **Diagnosed** : 03 Jul 2024 - Don Baldridge  
**Test Package** : CONST ( Additional Tests: PrtCount )

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Certificate L2367  
 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)