



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL



Area  
**Mobile Fleet**  
Machine Id  
**5207 5207**  
Component  
**Front Differential**  
Fluid  
**MOBIL MOBILTRANS HD 30 (--- 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>WC0939250</b>	WC0867068	WC0809022
Sample Date		Client Info		<b>20 May 2024</b>	26 Oct 2023	05 Jun 2023
Machine Age	hrs	Client Info		<b>15141</b>	14680	14186
Oil Age	hrs	Client Info		<b>955</b>	494	1431
Filter Age	hrs	Client Info		<b>955</b>	494	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Sample Status				<b>ATTENTION</b>	NORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>57</b>	34	95
Chromium	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	2
Nickel	ppm	ASTM D5185m	>3	<b>0</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	<1
Lead	ppm	ASTM D5185m	>13	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>103	<b>2</b>	<1	3
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<1
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

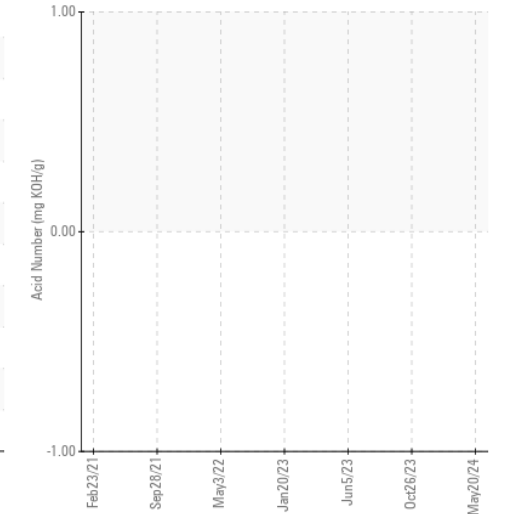
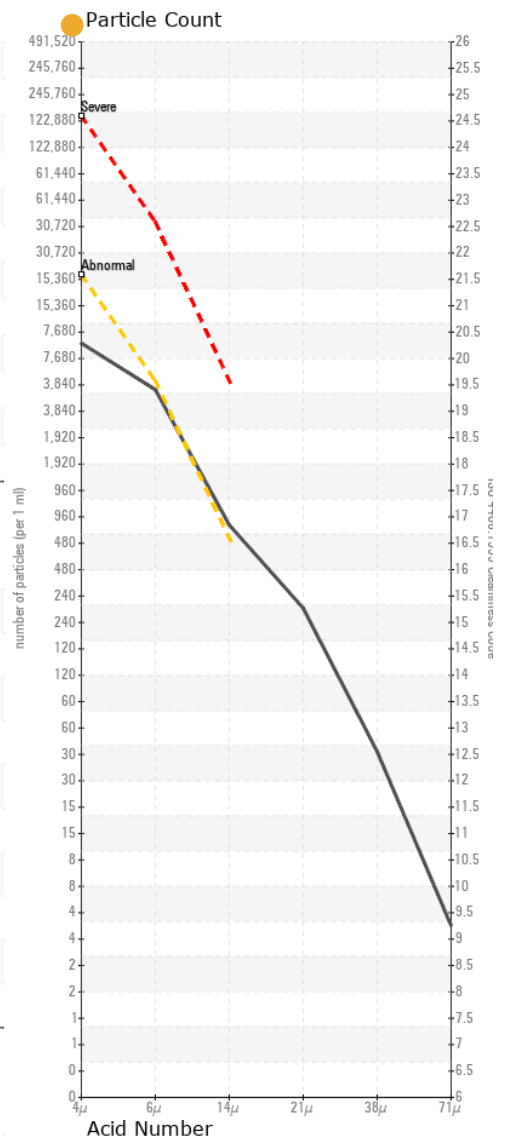
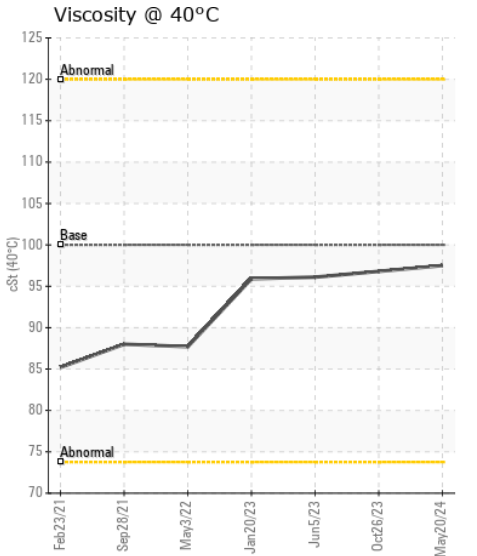
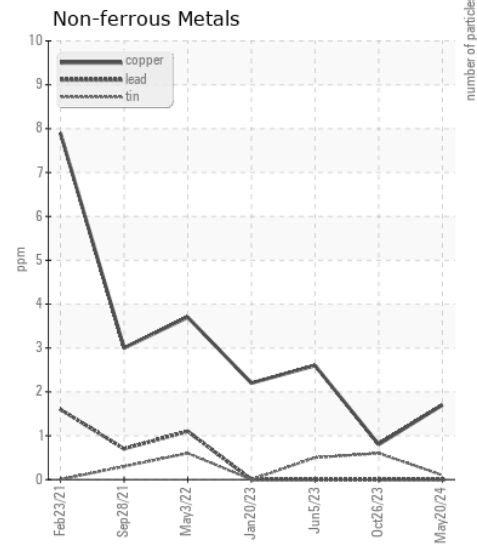
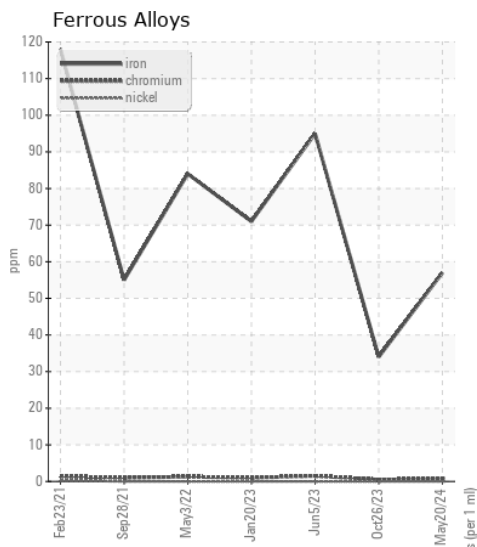
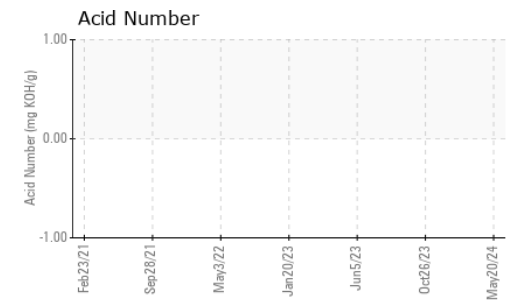
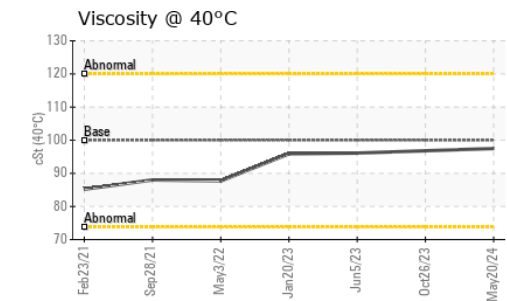
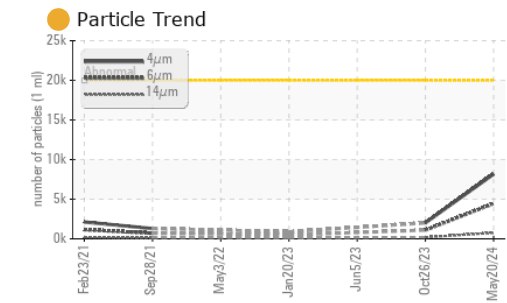
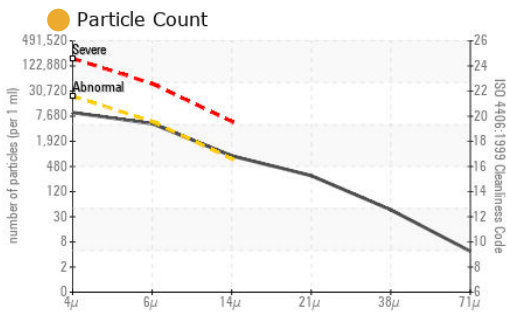
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>100	<b>15</b>	12	20
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	<1
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>20000	<b>8169</b>	2010	---
Particles >6µm		ASTM D7647	>5000	<b>4450</b>	1095	---
Particles >14µm		ASTM D7647	>640	<b>757</b>	186	---
Particles >21µm		ASTM D7647	>160	<b>255</b>	63	---
Particles >38µm		ASTM D7647	>40	<b>39</b>	10	---
Particles >71µm		ASTM D7647	>10	<b>4</b>	1	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>20/19/17</b>	18/17/15	---
Silt	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	▲ MODER
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>	0	<1
Boron	ppm	ASTM D5185m		<b>0</b>	3	3
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>1</b>	<1	2
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185m		<b>6</b>	21	53
Calcium	ppm	ASTM D5185m		<b>3725</b>	3319	3478
Phosphorus	ppm	ASTM D5185m		<b>977</b>	903	952
Zinc	ppm	ASTM D5185m		<b>1177</b>	1086	1213
Sulfur	ppm	ASTM D5185m		<b>12885</b>	10333	12331
Visc @ 40°C	cSt	ASTM D445	100	<b>97.5</b>	96.8	96.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0939250 **Received** : 22 May 2024  
**Lab Number** : 06187524 **Tested** : 24 May 2024  
**Unique Number** : 11044276 **Diagnosed** : 24 May 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)

**CAROLINA SUNROCK**  
 PO BOX 25  
 BUTNER, NC  
 US 27509

Contact: Leigh Dennis  
 rdennis@thesunrockgroup.com

T: (919)575-4505  
 F: (919)575-0162