



# OIL ANALYSIS REPORT

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

Area  
**Mobile Fleet**  
 Machine Id  
**5502 5502**  
 Component  
**Right Final Drive**  
 Fluid  
**MOBIL MOBILTRANS HD 30 (3 GAL)**

## RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil 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>WC0861943</b>	WC0765081	WC0740801
Sample Date		Client Info		<b>09 Jan 2024</b>	09 May 2023	05 Oct 2022
Machine Age	hrs	Client Info		<b>10497</b>	9934	9315
Oil Age	hrs	Client Info		<b>1198</b>	635	1365
Filter Age	hrs	Client Info		<b>1198</b>	635	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Changed</b>	Not Changed	Changed
Sample Status				<b>SEVERE</b>	ATTENTION	SEVERE

## WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>500	<b>▲ 408</b>	19	<b>▲ 590</b>
Chromium	ppm	ASTM D5185m	>10	<b>5</b>	<1	5
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>4</b>	0	3
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>▲ 94</b>	1	<b>▲ 100</b>
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>50	<b>2</b>	2	5
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	<b>MODER</b>	NONE	NONE

## CONTAMINATION

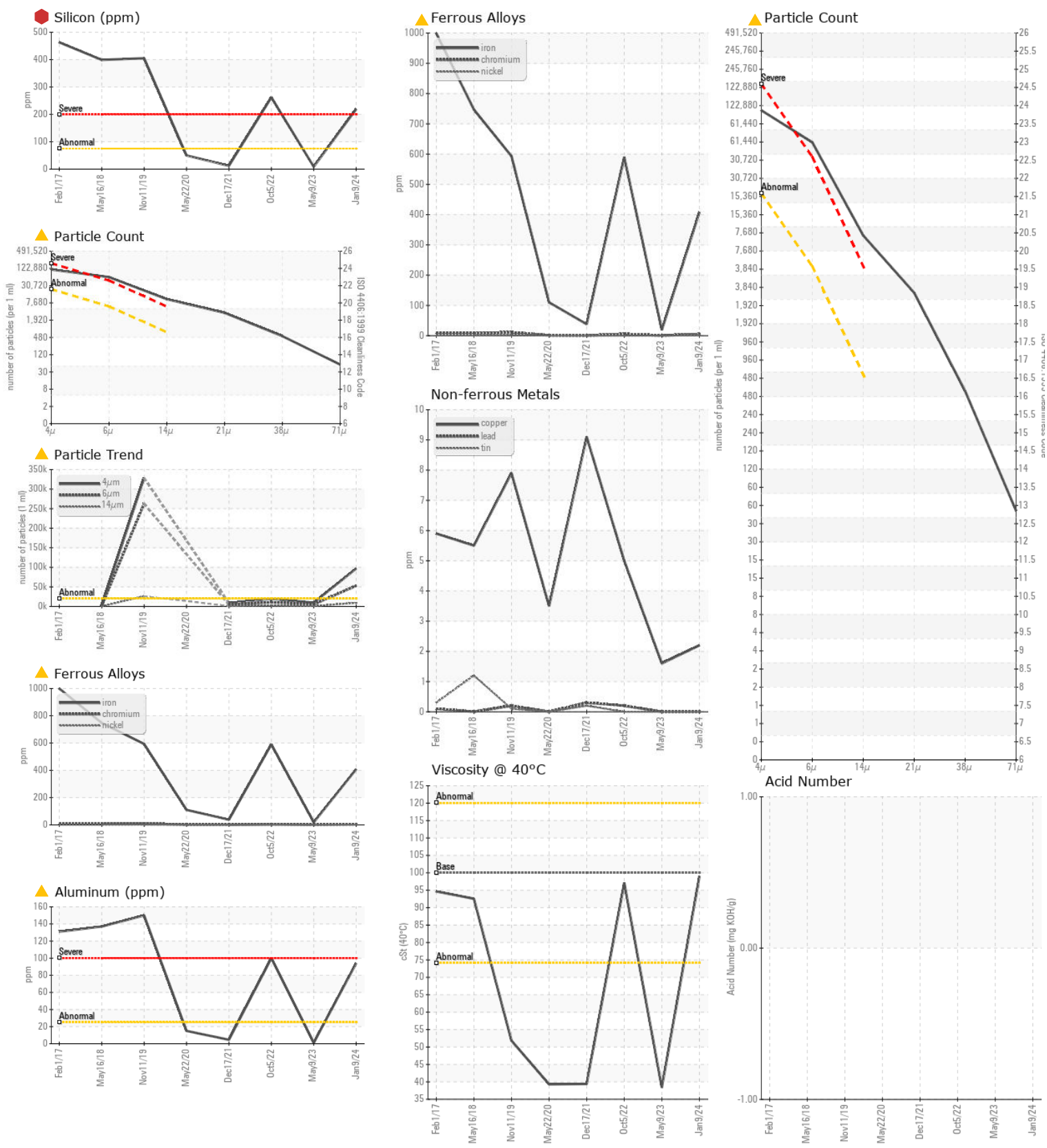
There is a high amount of particulates present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	<b>◆ 219</b>	9	<b>◆ 262</b>
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	<1	5
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>20000	<b>▲ 96819</b>	9491	19196
Particles >6µm		ASTM D7647	>5000	<b>▲ 52743</b>	▲ 5170	▲ 10457
Particles >14µm		ASTM D7647	>640	<b>▲ 8976</b>	▲ 880	▲ 1780
Particles >21µm		ASTM D7647	>160	<b>▲ 3024</b>	▲ 296	▲ 599
Particles >38µm		ASTM D7647	>40	<b>▲ 467</b>	▲ 46	▲ 93
Particles >71µm		ASTM D7647	>10	<b>▲ 48</b>	5	9
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>▲ 24/23/20</b>	▲ 20/20/17	▲ 21/21/18
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	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	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		<b>7</b>	<1	12
Boron	ppm	ASTM D5185m		<b>4</b>	0	4
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>2</b>	<1	4
Manganese	ppm	ASTM D5185m		<b>4</b>	0	4
Magnesium	ppm	ASTM D5185m		<b>49</b>	▲ 310	81
Calcium	ppm	ASTM D5185m		<b>3317</b>	▲ 50	3692
Phosphorus	ppm	ASTM D5185m		<b>910</b>	▲ 449	976
Zinc	ppm	ASTM D5185m		<b>1071</b>	▲ 533	1168
Sulfur	ppm	ASTM D5185m		<b>12092</b>	▲ 3068	13281
Visc @ 40°C	cSt	ASTM D445	100	<b>99.0</b>	▲ 38.4	97.1



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0861943 **Received** : 11 Jan 2024  
**Lab Number** : 06057958 **Diagnosed** : 12 Jan 2024  
**Unique Number** : 10829340 **Diagnostician** : Don Baldrige  
**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)