



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Mobile Fleet
Machine Id
5214 5214
Component
Rear Differential
Fluid
MOBIL MOBILTRANS HD 50 (15 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0861921	WC0867176	WC0834954
Sample Date		Client Info		05 Jan 2024	20 Oct 2023	24 Jul 2023
Machine Age	hrs	Client Info		11449	10920	10359
Oil Age	hrs	Client Info		529	2002	1441
Filter Age	hrs	Client Info		529	0	0
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	14	37	37
Chromium	ppm	ASTM D5185m	>3	0	<1	<1
Nickel	ppm	ASTM D5185m	>3	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	3
Aluminum	ppm	ASTM D5185m	>30	<1	2	3
Lead	ppm	ASTM D5185m	>13	0	<1	<1
Copper	ppm	ASTM D5185m	>103	1	3	6
Tin	ppm	ASTM D5185m	>5	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

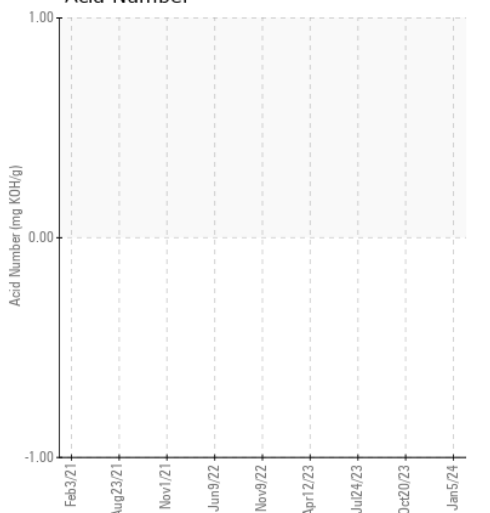
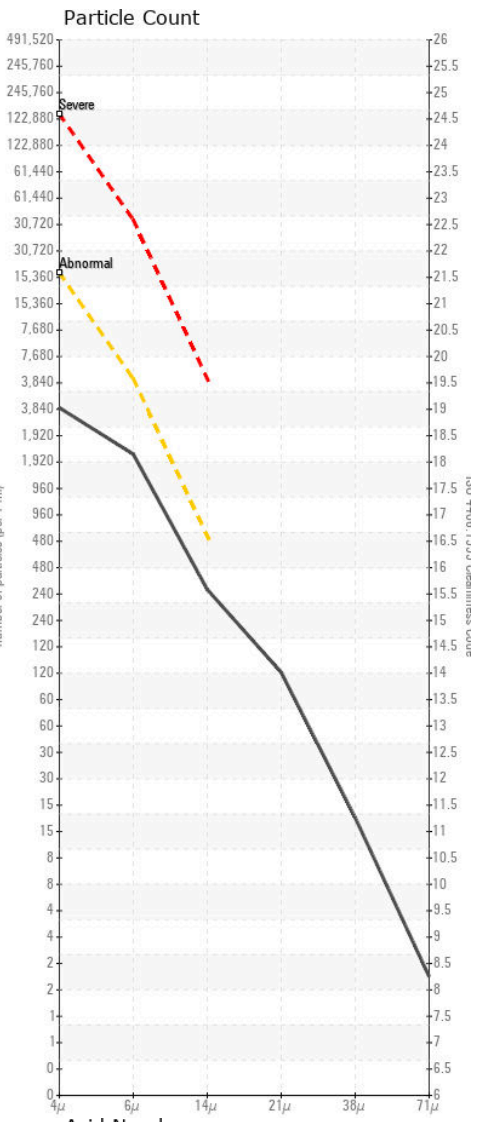
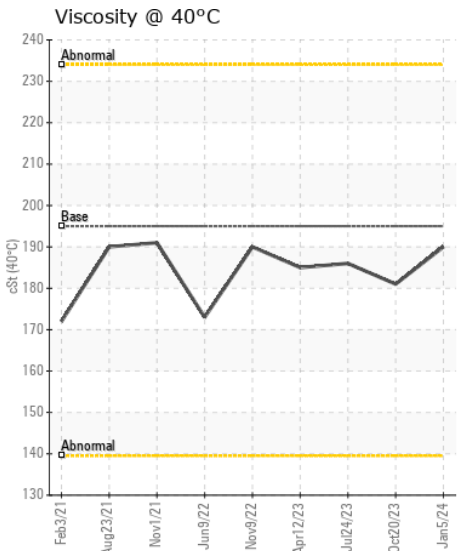
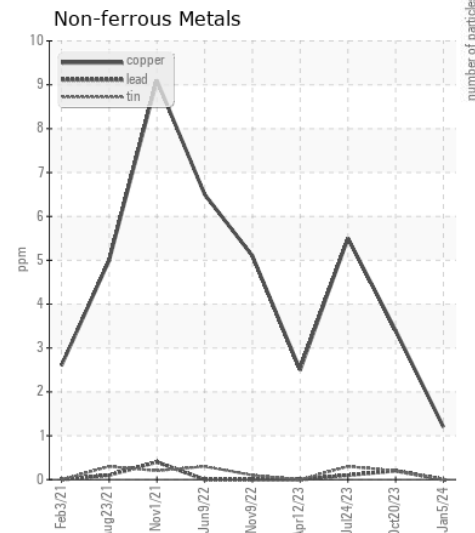
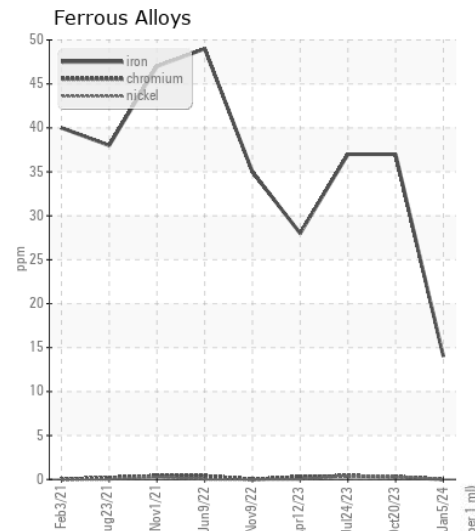
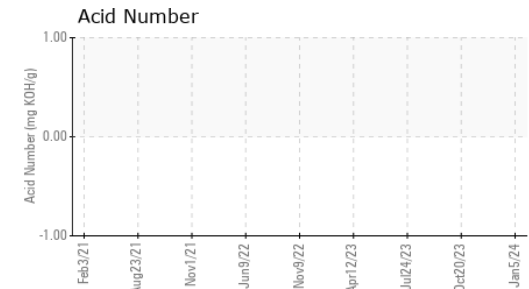
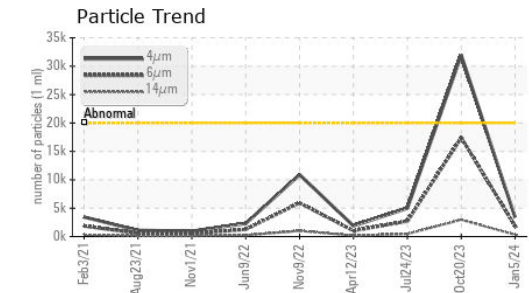
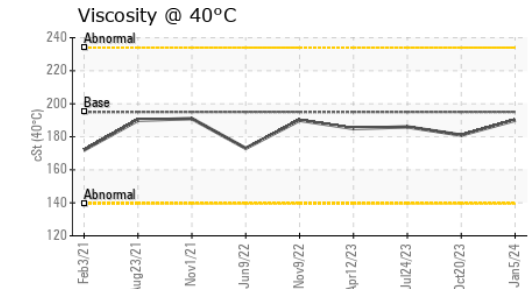
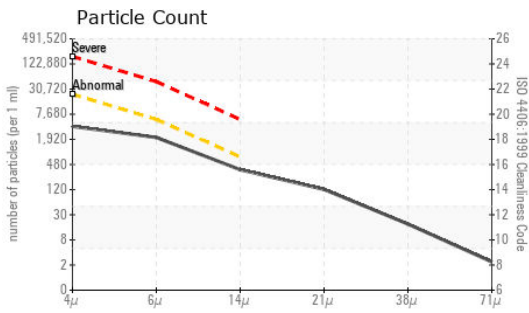
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>100	11	15	14
Potassium	ppm	ASTM D5185m	>20	0	2	2
Water		WC Method	>.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	3419	▲ 31954	4985
Particles >6µm		ASTM D7647	>5000	1862	▲ 17407	2716
Particles >14µm		ASTM D7647	>640	317	▲ 2962	462
Particles >21µm		ASTM D7647	>160	107	▲ 998	156
Particles >38µm		ASTM D7647	>40	16	▲ 154	24
Particles >71µm		ASTM D7647	>10	2	▲ 16	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	19/18/15	▲ 22/21/19	19/19/16
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<1	0	0
Boron	ppm	ASTM D5185m		1	4	6
Barium	ppm	ASTM D5185m		0	9	2
Molybdenum	ppm	ASTM D5185m		<1	6	16
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		19	30	30
Calcium	ppm	ASTM D5185m		3460	3381	4333
Phosphorus	ppm	ASTM D5185m		956	885	1149
Zinc	ppm	ASTM D5185m		1009	1113	1374
Sulfur	ppm	ASTM D5185m		10919	13090	16233
Visc @ 40°C	cSt	ASTM D445	195	190	181	186



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0861921 **Received** : 09 Jan 2024
Lab Number : 06055829 **Diagnosed** : 11 Jan 2024
Unique Number : 10821778 **Diagnostician** : 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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