



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL



Area
Mobile Fleet
Machine Id
5100 5100
Component
Front Left Final Drive
Fluid
MOBIL MOBILTRANS HD 50 (1 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		WC0919128	WC0852510	WC0613192
Sample Date		Client Info		18 Apr 2024	06 Sep 2023	28 Aug 2021
Machine Age	hrs	Client Info		12788	11569	9279
Oil Age	hrs	Client Info		2419	1200	1055
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				ATTENTION	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>800	252	164	108
Chromium	ppm	ASTM D5185m	>10	2	<1	<1
Nickel	ppm	ASTM D5185m	>5	1	<1	<1
Titanium	ppm	ASTM D5185m	>15	1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>75	7	5	<1
Lead	ppm	ASTM D5185m	>10	<1	<1	<1
Copper	ppm	ASTM D5185m	>75	10	6	5
Tin	ppm	ASTM D5185m	>8	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

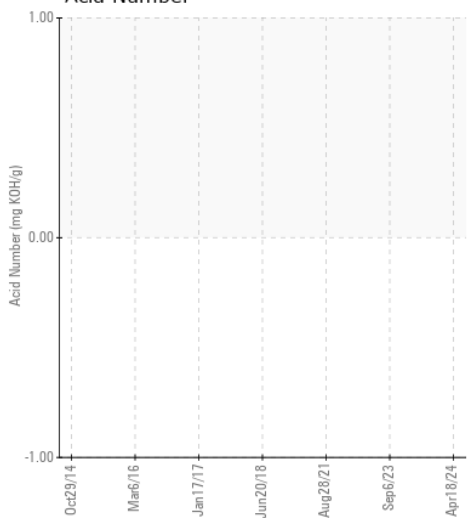
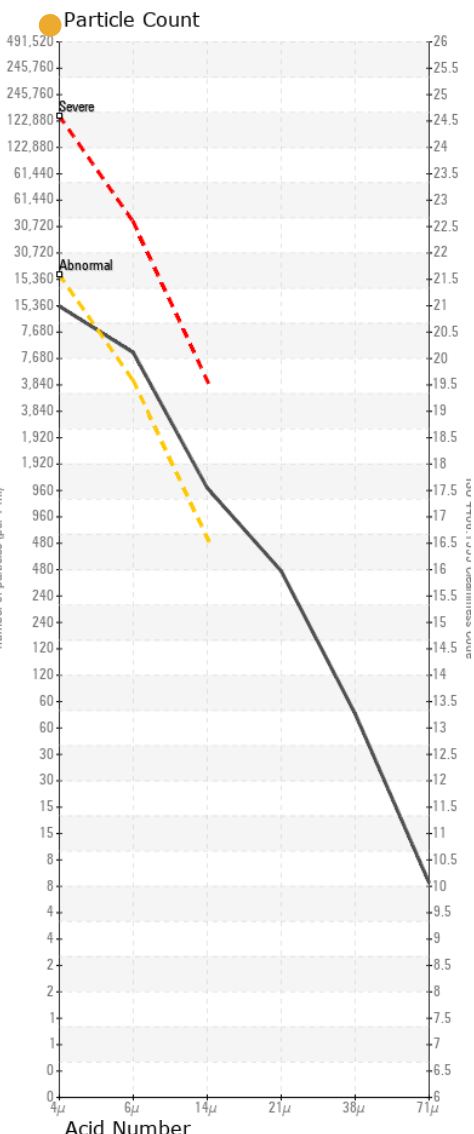
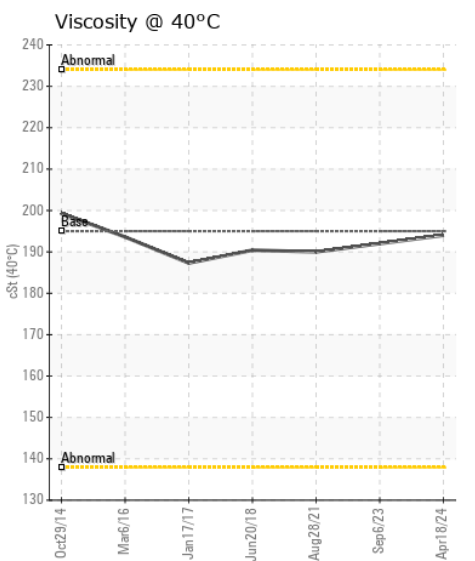
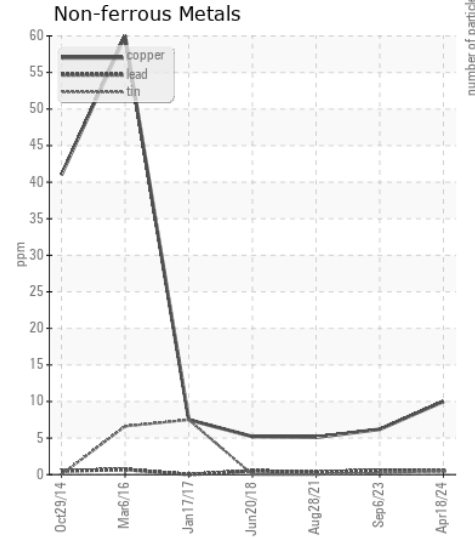
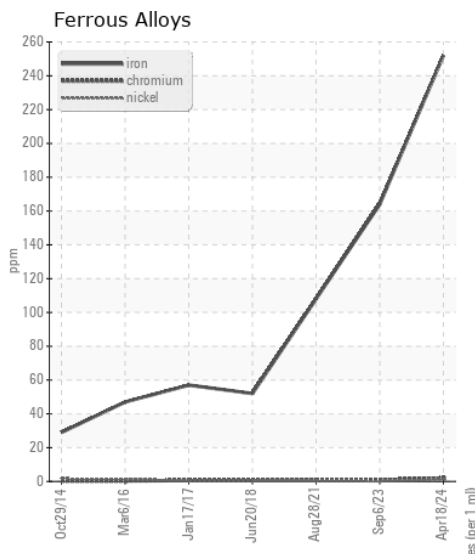
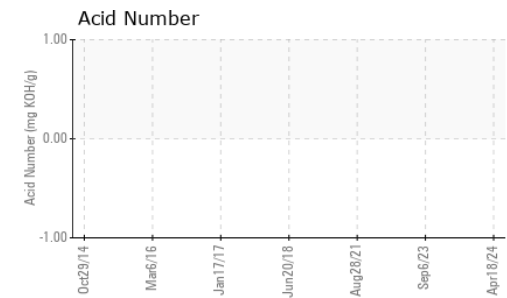
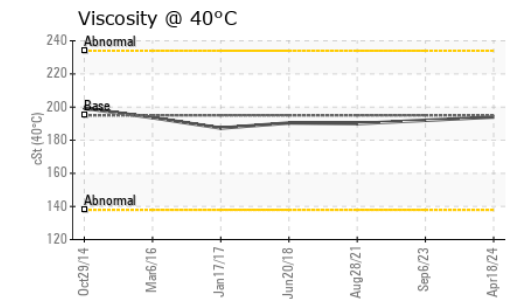
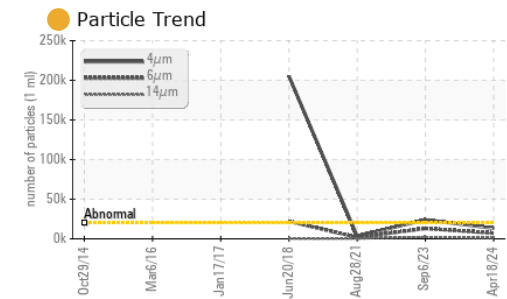
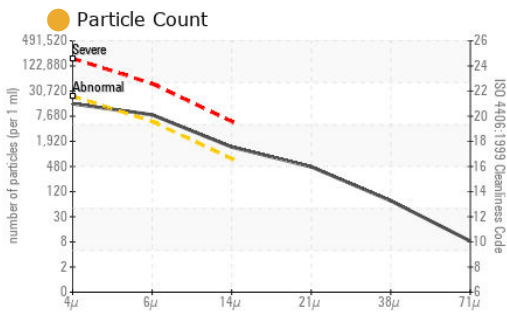
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>400	183	165	66
Potassium	ppm	ASTM D5185m	>20	3	0	1
Water		WC Method	>0.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	13258	▲ 24063	3402
Particles >6µm		ASTM D7647	>5000	7223	▲ 13109	1853
Particles >14µm		ASTM D7647	>640	1229	▲ 2231	315
Particles >21µm		ASTM D7647	>160	414	▲ 751	106
Particles >38µm		ASTM D7647	>40	64	▲ 116	16
Particles >71µm		ASTM D7647	>10	7	▲ 12	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/20/17	▲ 22/21/18	19/18/15
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	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		0	2	2
Boron	ppm	ASTM D5185m		4	2	11
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		2	1	2
Manganese	ppm	ASTM D5185m		3	2	1
Magnesium	ppm	ASTM D5185m		20	19	18
Calcium	ppm	ASTM D5185m		3444	3937	3829
Phosphorus	ppm	ASTM D5185m		971	975	995
Zinc	ppm	ASTM D5185m		1097	1229	1167
Sulfur	ppm	ASTM D5185m		13662	15227	8554
Visc @ 40°C	cSt	ASTM D445	195	194	192	190



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0919128 **Received** : 22 Apr 2024
Lab Number : 06156825 **Tested** : 24 Apr 2024
Unique Number : 10992248 **Diagnosed** : 24 Apr 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: PrtCount)

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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)