



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Mobile Fleet
Machine Id
5100 5100
Component
Rear Differential
Fluid
MOBIL MOBILTRANS HD 50 (12 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0919133	WC0852355	WC0726536
Sample Date		Client Info		18 Apr 2024	06 Sep 2023	10 Aug 2022
Machine Age	hrs	Client Info		12788	11569	10374
Oil Age	hrs	Client Info		2419	1200	2150
Filter Age	hrs	Client Info		0	1200	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	ABNORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	45	34	58
Chromium	ppm	ASTM D5185m	>3	<1	0	<1
Nickel	ppm	ASTM D5185m	>3	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>30	4	4	4
Lead	ppm	ASTM D5185m	>13	<1	<1	0
Copper	ppm	ASTM D5185m	>103	6	4	10
Tin	ppm	ASTM D5185m	>5	<1	<1	1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

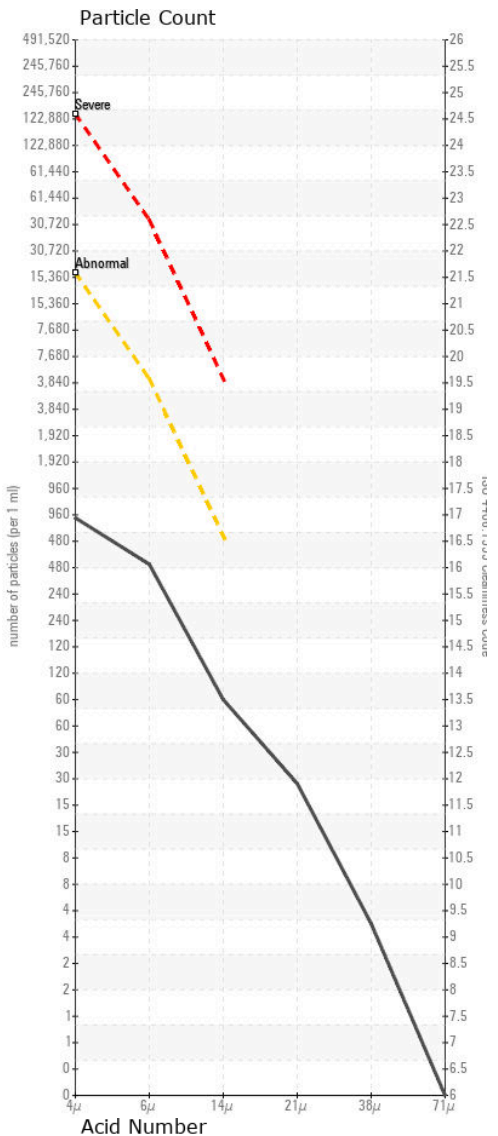
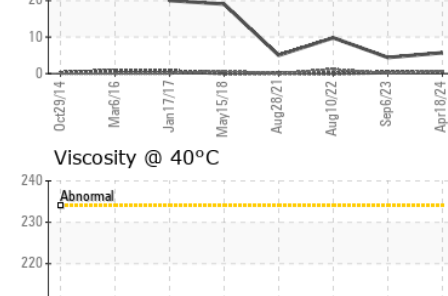
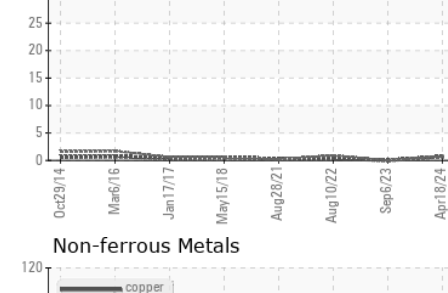
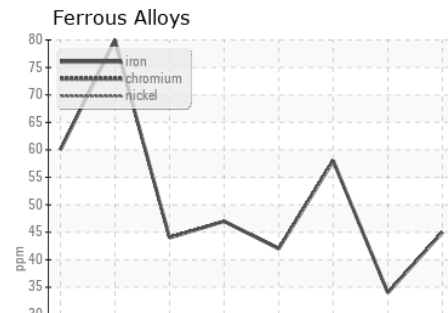
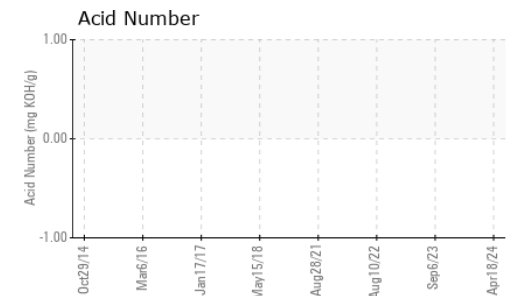
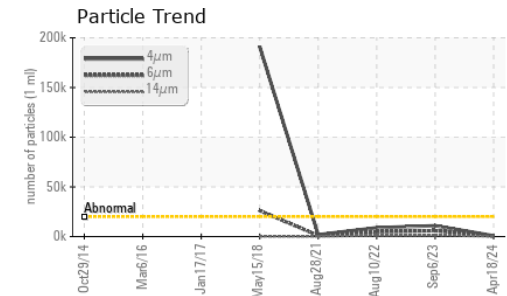
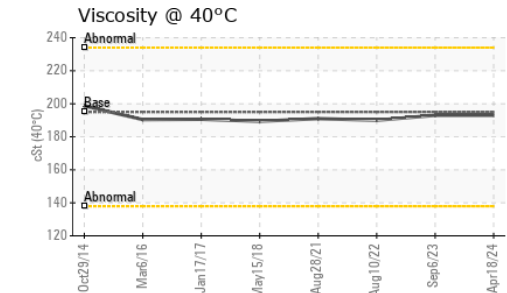
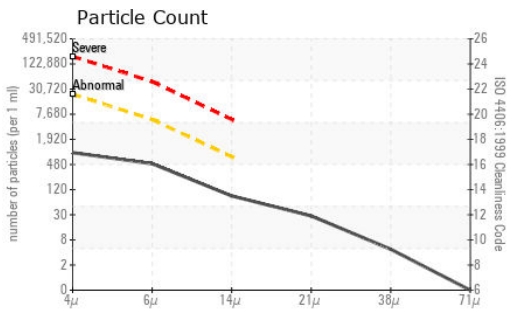
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>100	49	31	40
Potassium	ppm	ASTM D5185m	>20	3	0	0
Water		WC Method	>.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	809	10935	8924
Particles >6µm		ASTM D7647	>5000	441	5957	4861
Particles >14µm		ASTM D7647	>640	75	1014	827
Particles >21µm		ASTM D7647	>160	25	342	279
Particles >38µm		ASTM D7647	>40	4	53	43
Particles >71µm		ASTM D7647	>10	0	5	4
Oil Cleanliness		ISO 4406 (c)	>21/19/16	17/16/13	21/20/17	20/19/17
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		0	1	1
Boron	ppm	ASTM D5185m		2	4	19
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	1	3
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		19	20	17
Calcium	ppm	ASTM D5185m		3537	4041	3821
Phosphorus	ppm	ASTM D5185m		966	975	910
Zinc	ppm	ASTM D5185m		1095	1239	1120
Sulfur	ppm	ASTM D5185m		13067	14646	8884
Visc @ 40°C	cSt	ASTM D445	195	193	193	190



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0919133
Lab Number : 06156826
Unique Number : 10992249
Test Package : CONST (Additional Tests: PrtCount)

Received : 22 Apr 2024
Tested : 24 Apr 2024
Diagnosed : 24 Apr 2024 - Jonathan Hester

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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