



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Mobile Fleet
Machine Id
5210 5210
Component
Front Differential
Fluid
MOBIL MOBILTRANS HD 50 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0919087	WC0867163	WC0808975
Sample Date		Client Info		18 Apr 2024	10 Nov 2023	01 Jun 2023
Machine Age	hrs	Client Info		15980	15424	14808
Oil Age	hrs	Client Info		1781	1225	609
Filter Age	hrs	Client Info		0	1225	0
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>500	▲ 737	▲ 1369	66
Chromium	ppm	ASTM D5185m	>3	2	▲ 4	<1
Nickel	ppm	ASTM D5185m	>3	1	● 1	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>30	4	10	2
Lead	ppm	ASTM D5185m	>13	<1	0	0
Copper	ppm	ASTM D5185m	>103	4	8	2
Tin	ppm	ASTM D5185m	>5	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

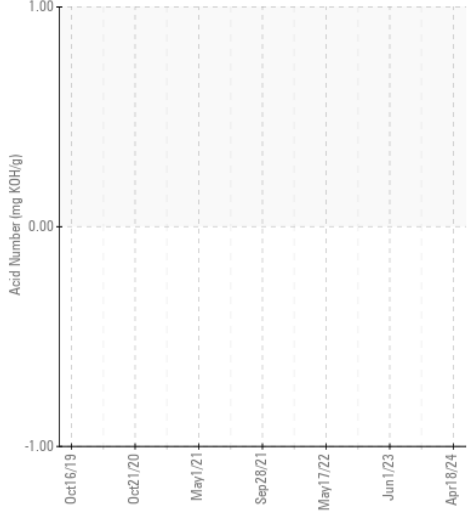
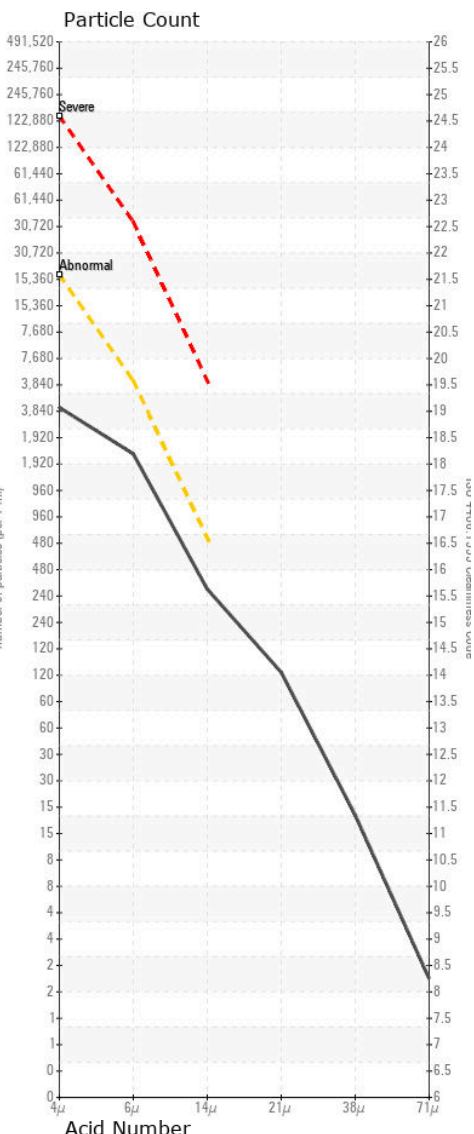
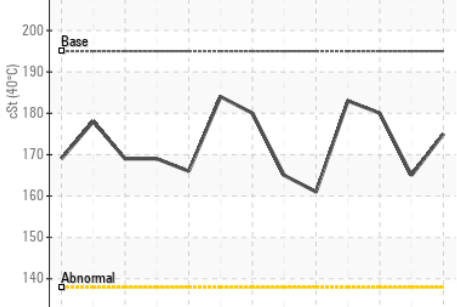
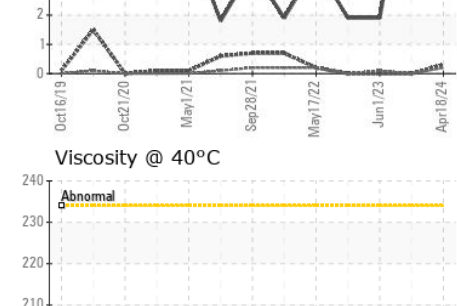
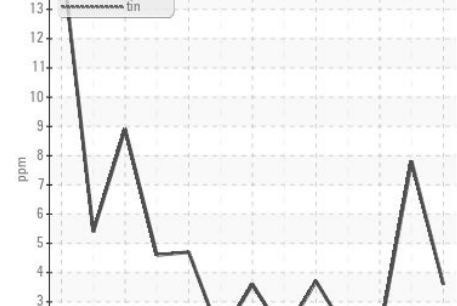
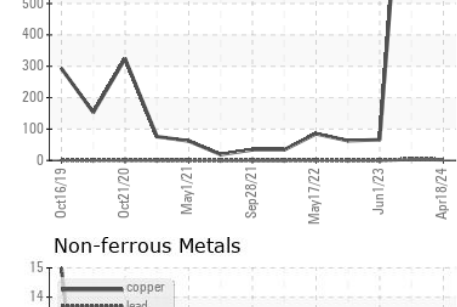
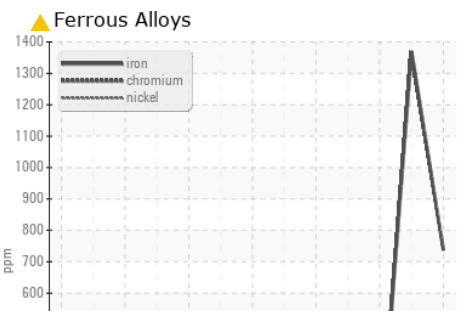
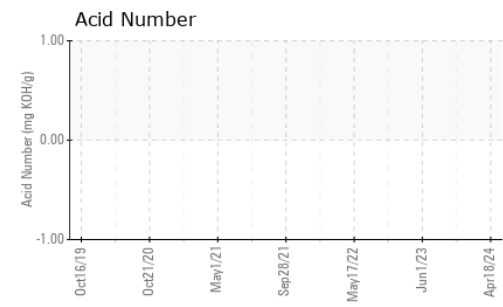
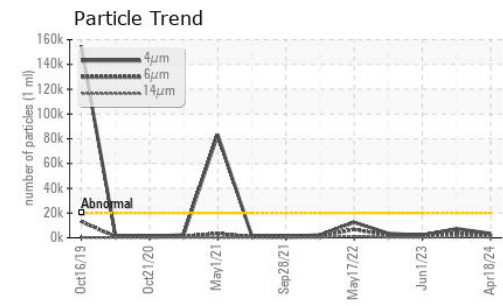
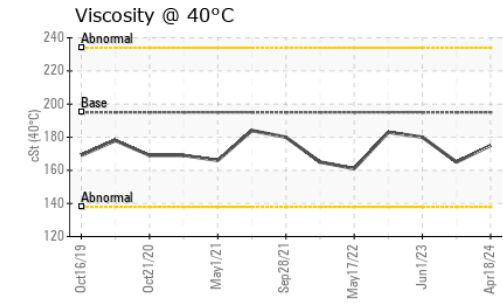
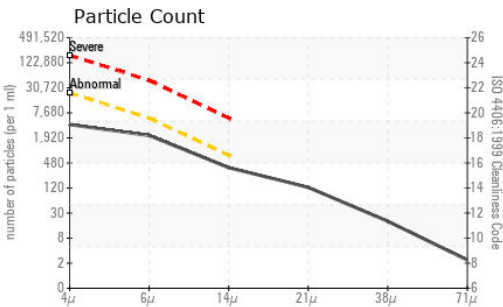
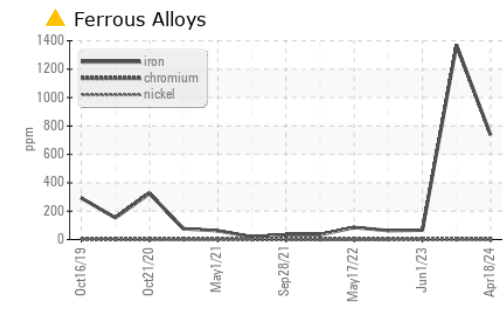
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>100	23	33	16
Potassium	ppm	ASTM D5185m	>20	2	2	0
Water		WC Method	>.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	3523	7369	2097
Particles >6µm		ASTM D7647	>5000	1919	4014	1142
Particles >14µm		ASTM D7647	>640	327	● 683	194
Particles >21µm		ASTM D7647	>160	110	● 230	65
Particles >38µm		ASTM D7647	>40	17	36	10
Particles >71µm		ASTM D7647	>10	2	4	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	19/18/16	● 20/19/17	18/17/15
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	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	3	<1
Boron	ppm	ASTM D5185m		1	5	3
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		3	12	10
Manganese	ppm	ASTM D5185m		6	10	<1
Magnesium	ppm	ASTM D5185m		48	98	39
Calcium	ppm	ASTM D5185m		3247	3629	3461
Phosphorus	ppm	ASTM D5185m		922	1147	893
Zinc	ppm	ASTM D5185m		1060	1371	1114
Sulfur	ppm	ASTM D5185m		12317	15343	14241
Visc @ 40°C	cSt	ASTM D445	195	175	165	180



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0919087 **Received** : 22 Apr 2024
Lab Number : 06156829 **Tested** : 24 Apr 2024
Unique Number : 10992252 **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)