



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
Mobile Fleet
Machine Id
5504 5504
Component
Left Final Drive
Fluid
MOBIL MOBILTRANS HD 50 (2 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0947899	WC0716678	WC0613170
Sample Date		Client Info		15 Jul 2024	18 Jul 2022	27 Aug 2021
Machine Age	hrs	Client Info		10988	9148	8132
Oil Age	hrs	Client Info		1831	2341	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	Changed	Not Chngd
Filter Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>800	566	584	▲ 552
Chromium	ppm	ASTM D5185m	>10	2	2	2
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m	>15	2	2	2
Silver	ppm	ASTM D5185m	>2	1	<1	0
Aluminum	ppm	ASTM D5185m	>75	29	29	22
Lead	ppm	ASTM D5185m	>10	0	1	<1
Copper	ppm	ASTM D5185m	>75	<1	1	1
Tin	ppm	ASTM D5185m	>8	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

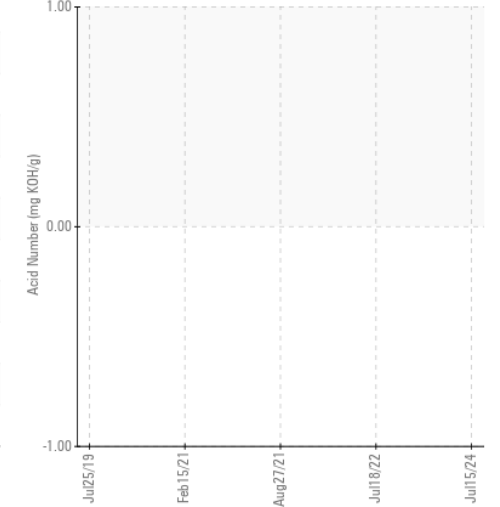
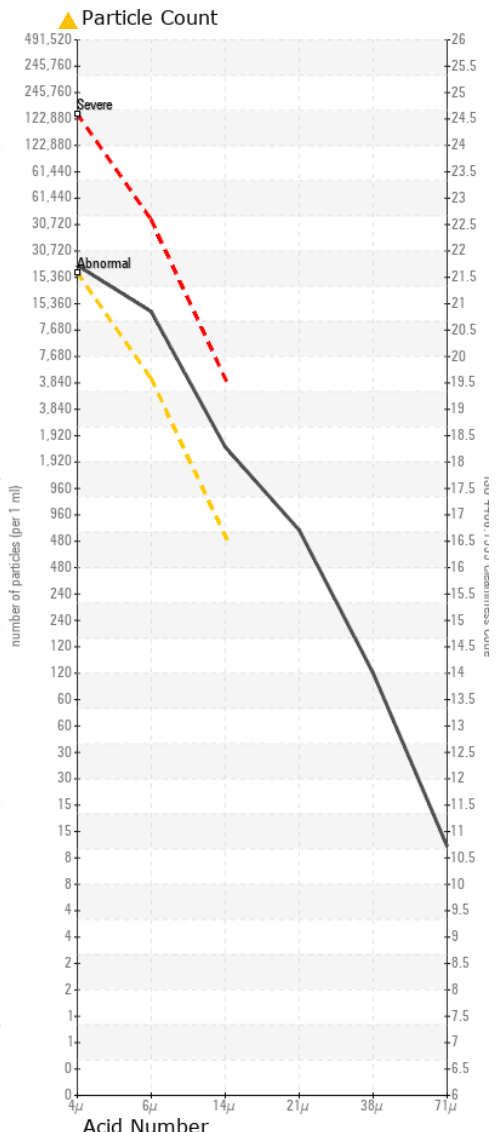
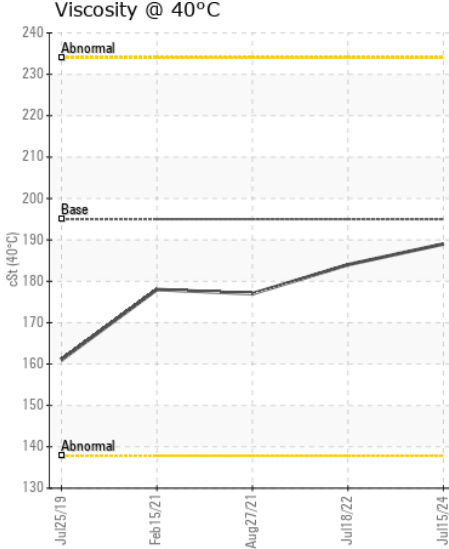
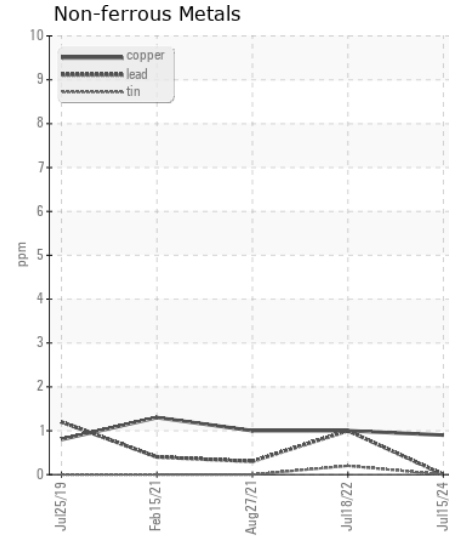
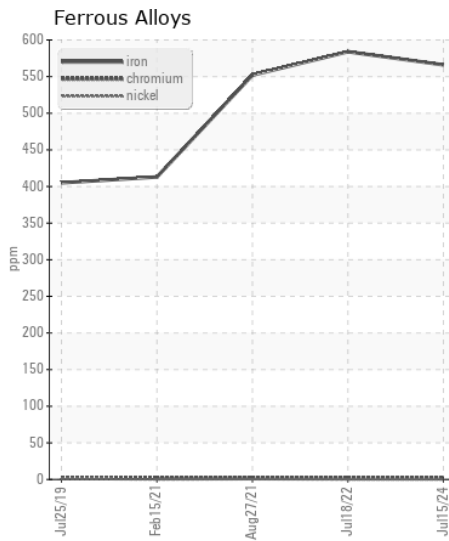
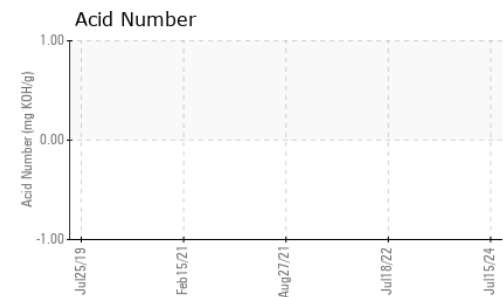
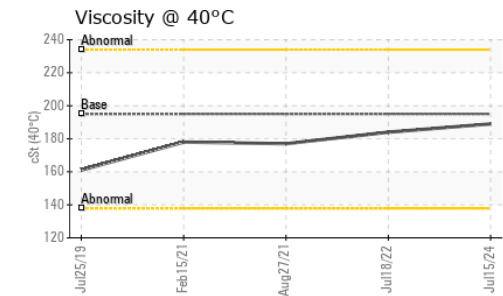
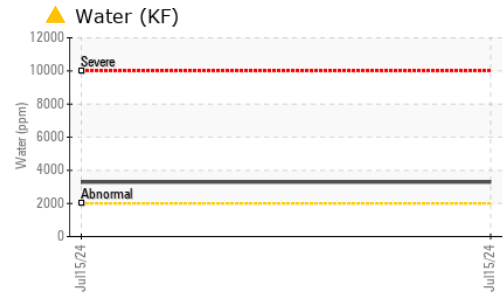
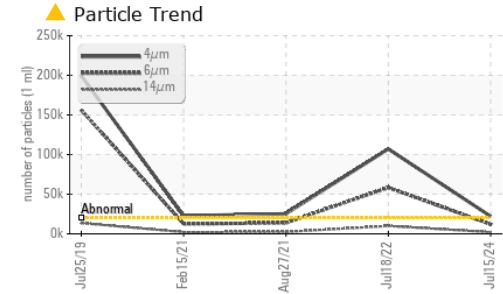
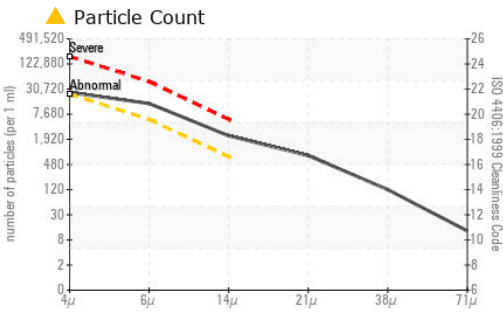
There is a high amount of particulates present in the oil. There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

Silicon	ppm	ASTM D5185m	>400	92	77	68
Potassium	ppm	ASTM D5185m	>20	4	4	4
Water	%	ASTM D6304	>0.2	▲ 0.329	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 3290	---	---
Particles >4µm		ASTM D7647	>20000	▲ 22062	▲ 107108	▲ 25270
Particles >6µm		ASTM D7647	>5000	▲ 12019	▲ 58348	▲ 13766
Particles >14µm		ASTM D7647	>640	▲ 2045	▲ 9930	▲ 2343
Particles >21µm		ASTM D7647	>160	▲ 689	▲ 3345	▲ 789
Particles >38µm		ASTM D7647	>40	▲ 106	▲ 516	▲ 122
Particles >71µm		ASTM D7647	>10	▲ 11	▲ 53	▲ 12
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 22/21/18	▲ 24/23/20	▲ 22/21/18
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	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	>0.2	0.2%	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		6	5	2
Boron	ppm	ASTM D5185m		8	15	25
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	2	2
Manganese	ppm	ASTM D5185m		4	4	4
Magnesium	ppm	ASTM D5185m		30	40	34
Calcium	ppm	ASTM D5185m		3420	3211	3246
Phosphorus	ppm	ASTM D5185m		984	1046	1103
Zinc	ppm	ASTM D5185m		1171	1296	1227
Sulfur	ppm	ASTM D5185m		15399	15026	11630
Visc @ 40°C	cSt	ASTM D445	195	189	184	177



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0947899 **Received** : 17 Jul 2024
Lab Number : 06239022 **Tested** : 18 Jul 2024
Unique Number : 11127856 **Diagnosed** : 18 Jul 2024 - Don Baldridge
Test Package : CONST (Additional Tests: KF, 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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