



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
Mobile Fleet
Machine Id
5106 5106
Component
Center Differential
Fluid
MOBIL MOBILFLUID 424 (16 GAL)

RECOMMENDATION

We advise that you check for the source of water entry. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0956030	WC0902896	WC0852405
Sample Date		Client Info		10 Jul 2024	05 Mar 2024	01 Sep 2023
Machine Age	hrs	Client Info		11283	10804	10302
Oil Age	hrs	Client Info		1499	1020	518
Filter Age	hrs	Client Info		1499	1020	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

The lead level is abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	129	137	130
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	2	1
Lead	ppm	ASTM D5185m	>25	▲ 46	▲ 41	▲ 40
Copper	ppm	ASTM D5185m	>100	14	12	12
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

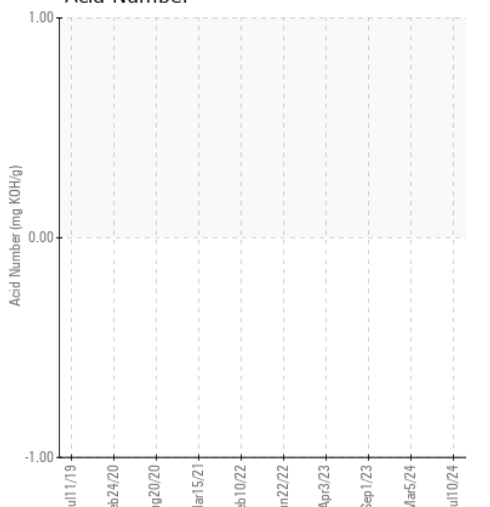
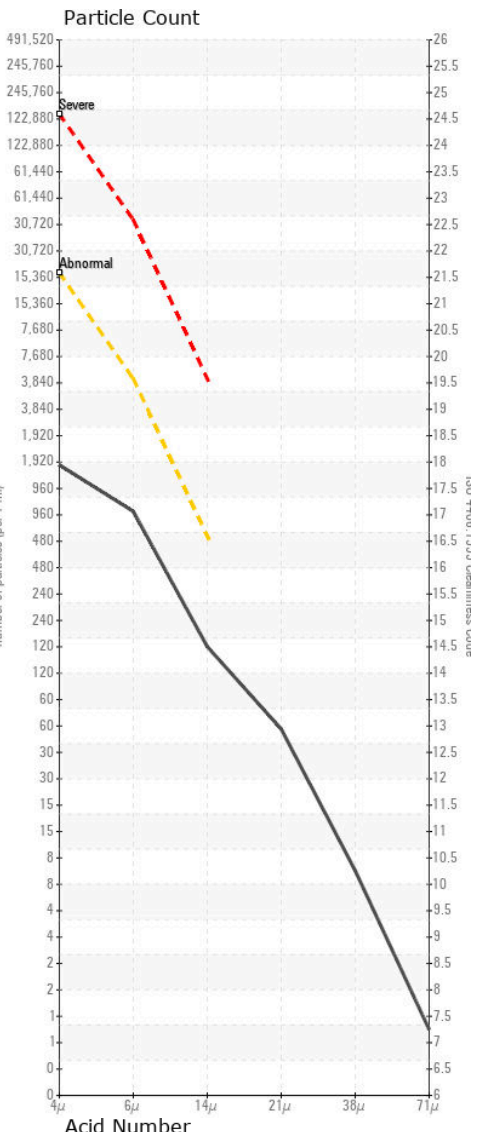
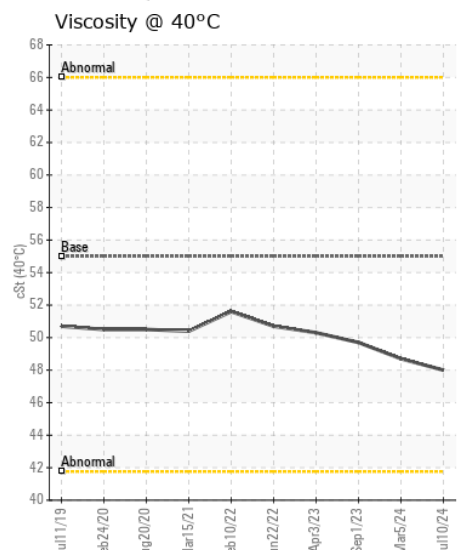
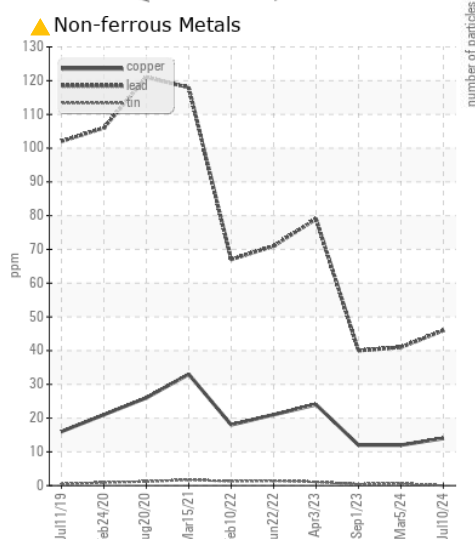
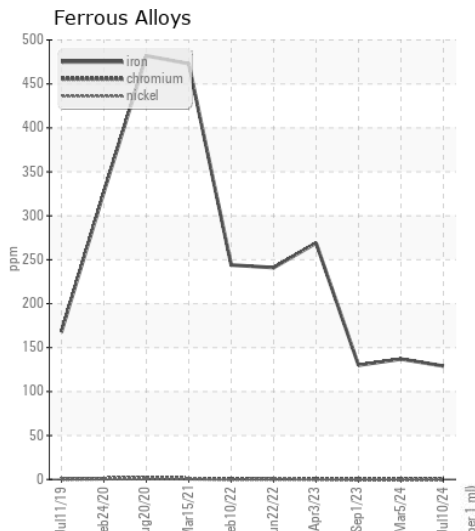
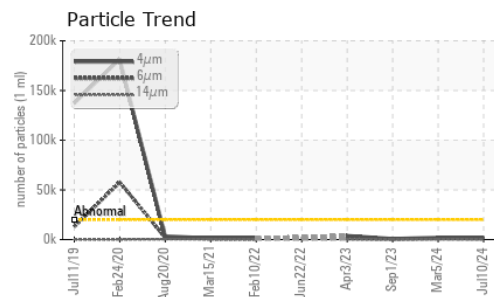
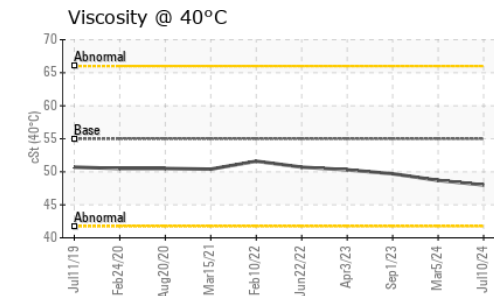
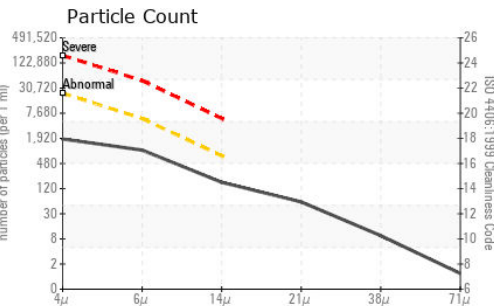
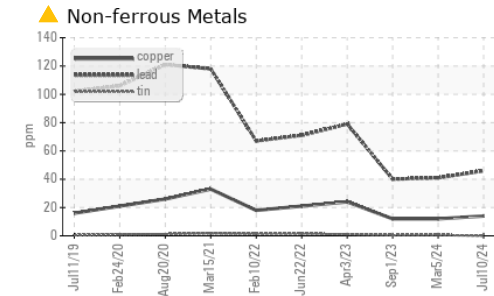
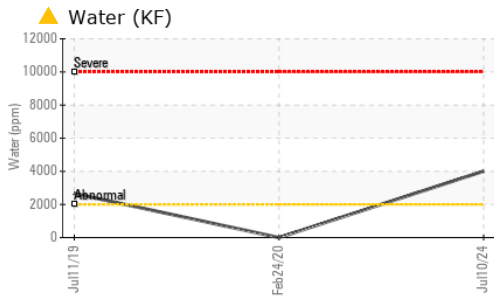
There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>75	9	9	9
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water	%	ASTM D6304	>.2	▲ 0.401	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 4010	---	---
Particles >4µm		ASTM D7647	>20000	1618	2192	922
Particles >6µm		ASTM D7647	>5000	881	1194	502
Particles >14µm		ASTM D7647	>640	150	203	85
Particles >21µm		ASTM D7647	>160	51	68	29
Particles >38µm		ASTM D7647	>40	8	11	4
Particles >71µm		ASTM D7647	>10	1	1	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	18/17/14	18/17/15	17/16/14
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	▲ 0.2%	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		5	<1	4
Boron	ppm	ASTM D5185m		84	110	108
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		7	6	8
Manganese	ppm	ASTM D5185m		1	2	1
Magnesium	ppm	ASTM D5185m		50	53	51
Calcium	ppm	ASTM D5185m		3304	3110	3391
Phosphorus	ppm	ASTM D5185m		1093	1078	1068
Zinc	ppm	ASTM D5185m		1281	1304	1338
Sulfur	ppm	ASTM D5185m		7094	5998	7287
Visc @ 40°C	cSt	ASTM D445	55	48.0	48.7	49.7



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0956030 **Received** : 12 Jul 2024
Lab Number : 06234757 **Tested** : 15 Jul 2024
Unique Number : 11123591 **Diagnosed** : 15 Jul 2024 - Don Baldridge
Test Package : CONST (Additional Tests: KF, PrtCount)

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Certificate L2367
 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)