



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area

Mobile Fleet

Machine Id

6415 6415

Component

Hydraulic System

Fluid

MOBIL MOBILFLUID 424 (23 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. 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		WC0861925	WC0852535	WC0808848
Sample Date		Client Info		03 Jan 2024	20 Sep 2023	09 May 2023
Machine Age	hrs	Client Info		15029	14656	14058
Oil Age	hrs	Client Info		382	615	1251
Filter Age	hrs	Client Info		382	615	1251
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

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

Iron	ppm	ASTM D5185m	>20	13	6	8
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	1	1	<1
Lead	ppm	ASTM D5185m	>10	<1	<1	<1
Copper	ppm	ASTM D5185m	>75	▲ 81	72	77
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

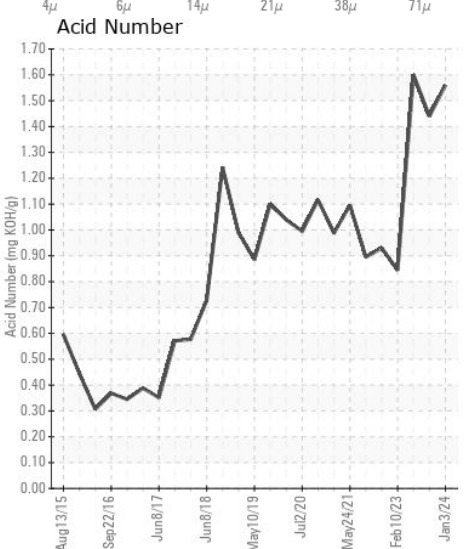
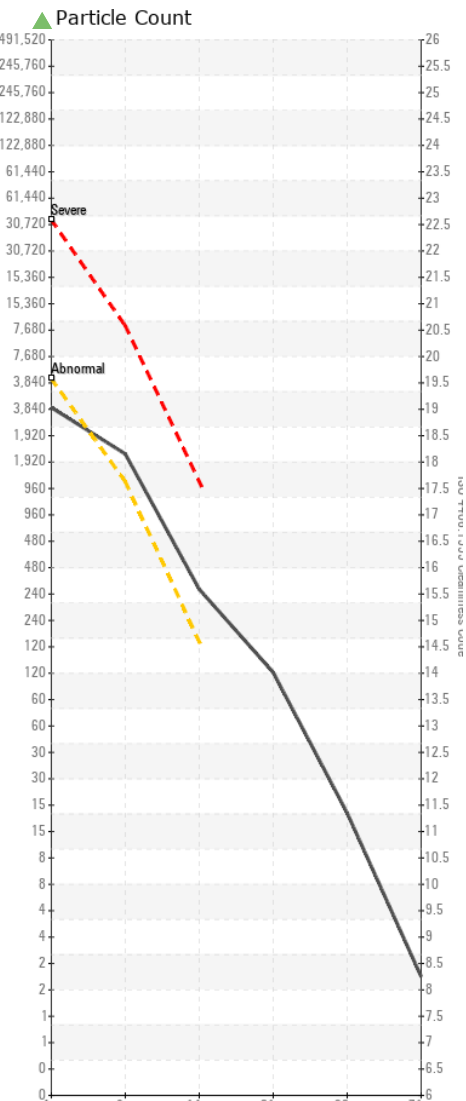
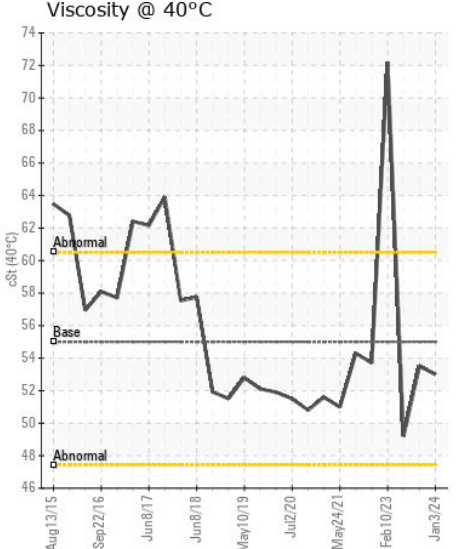
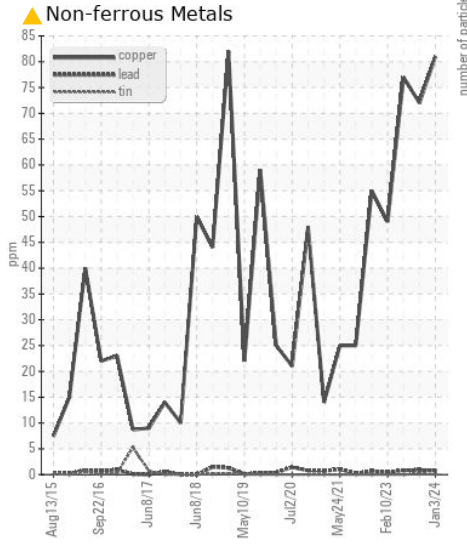
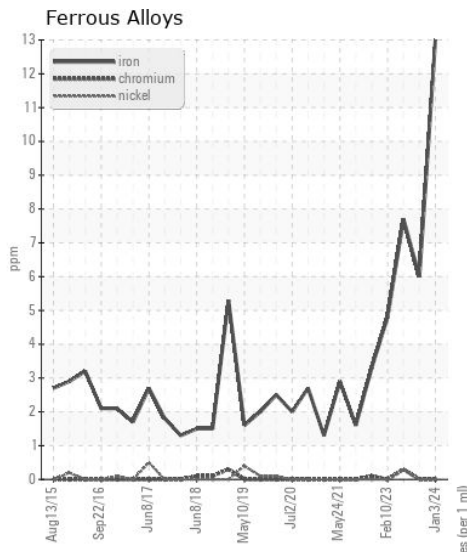
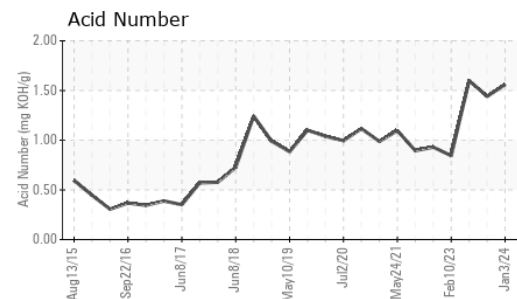
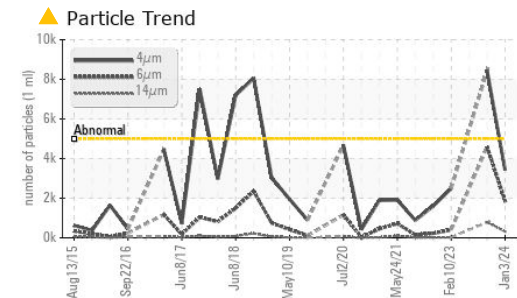
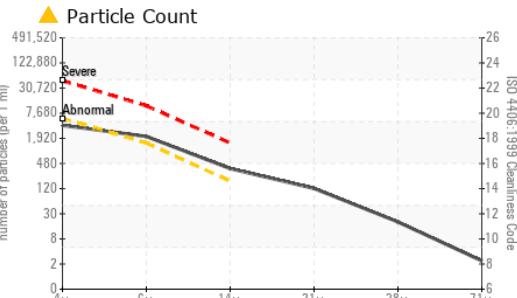
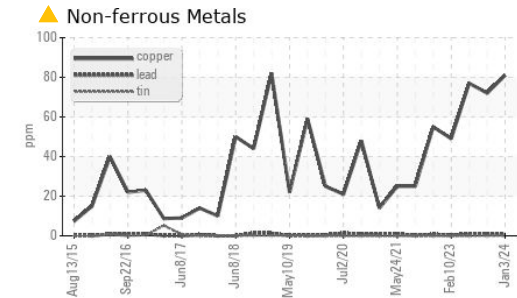
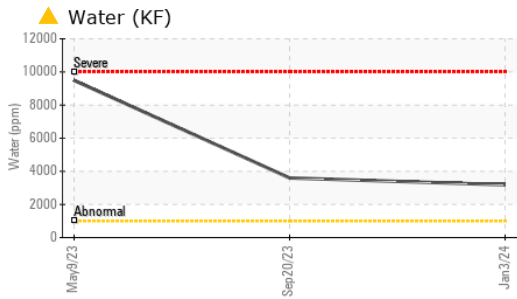
There is a moderate amount of particulates present in the oil. There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>20	14	12	13
Potassium	ppm	ASTM D5185m	>20	16	18	48
Water	%	ASTM D6304	>0.1	▲ 0.318	▲ 0.360	▲ 0.949
ppm Water	ppm	ASTM D6304	>1000	▲ 3184	▲ 3600	▲ 9490
Particles >4µm		ASTM D7647	>5000	3428	▲ 8439	---
Particles >6µm		ASTM D7647	>1300	▲ 1867	▲ 4597	---
Particles >14µm		ASTM D7647	>160	▲ 318	▲ 782	---
Particles >21µm		ASTM D7647	>40	▲ 107	▲ 264	---
Particles >38µm		ASTM D7647	>10	▲ 17	▲ 41	---
Particles >71µm		ASTM D7647	>3	2	▲ 4	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 19/18/15	▲ 20/19/17	---
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	▲ HEAVY
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	▲ HAZY	▲ MILKY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	0.2%	0.2%	0.2%

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		12	12	23
Boron	ppm	ASTM D5185m		124	115	97
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		20	21	12
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		75	68	109
Calcium	ppm	ASTM D5185m		3100	3266	2769
Phosphorus	ppm	ASTM D5185m		1174	1110	1073
Zinc	ppm	ASTM D5185m		1227	1396	1303
Sulfur	ppm	ASTM D5185m		7619	9853	6661
Acid Number (AN)	mg KOH/g	ASTM D8045		1.56	1.44	1.60
Visc @ 40°C	cSt	ASTM D445	55	53.0	53.5	49.2



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0861925 **Received** : 09 Jan 2024
Lab Number : 06055843 **Diagnosed** : 14 Jan 2024
Unique Number : 10821792 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: KF)

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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)