



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
Machine Id
6452 6452
Component
Hydraulic System
Fluid
MOBIL MOBILFLUID 424 (20 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		WC0937847	WC0939242	WC0861888
Sample Date		Client Info		08 Jul 2024	23 May 2024	11 Jan 2024
Machine Age	hrs	Client Info		8182	7960	7401
Oil Age	hrs	Client Info		781	559	1035
Filter Age	hrs	Client Info		781	559	1035
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

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

Iron	ppm	ASTM D5185m	>20	▲ 22	2	1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	2	<1
Lead	ppm	ASTM D5185m	>10	<1	<1	1
Copper	ppm	ASTM D5185m	>75	2	<1	1
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

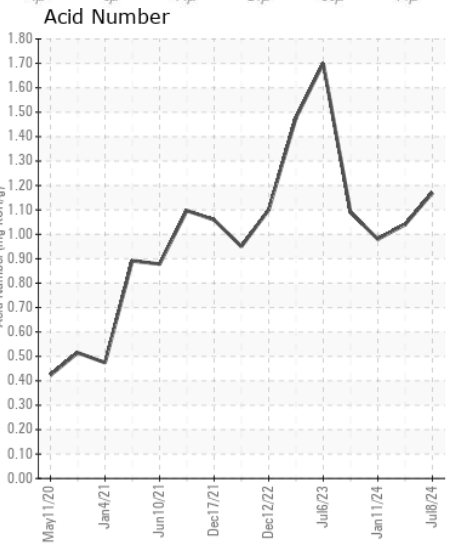
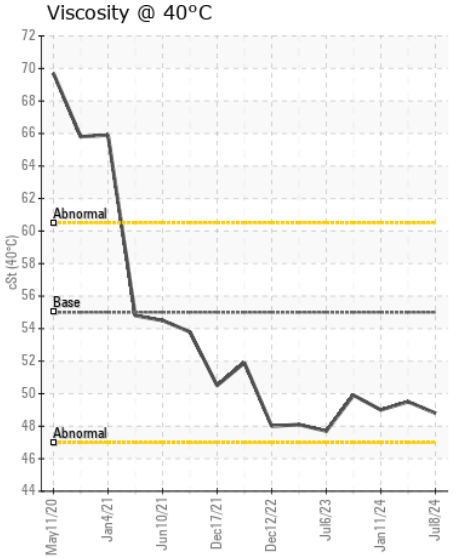
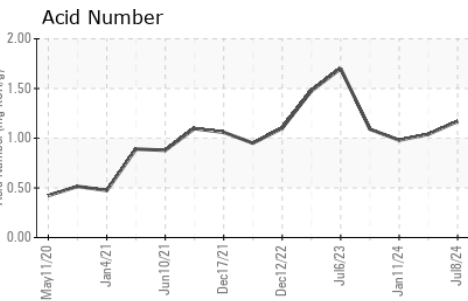
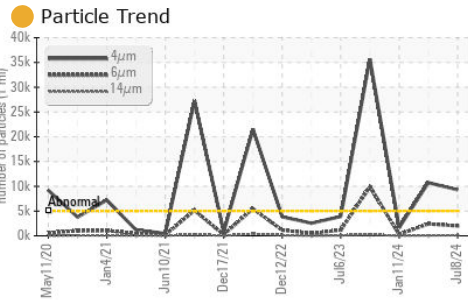
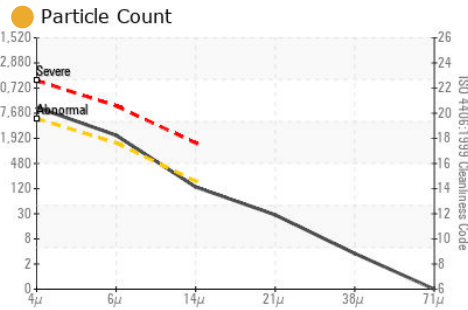
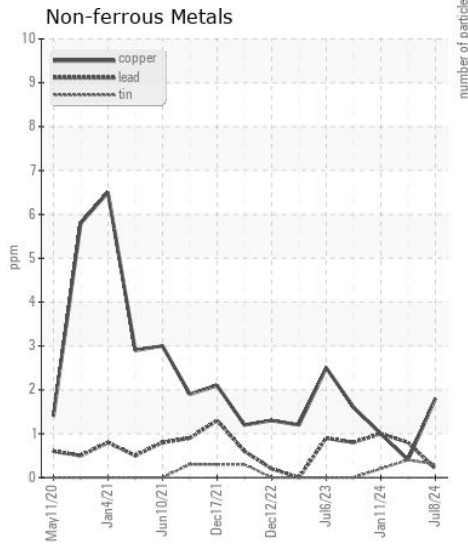
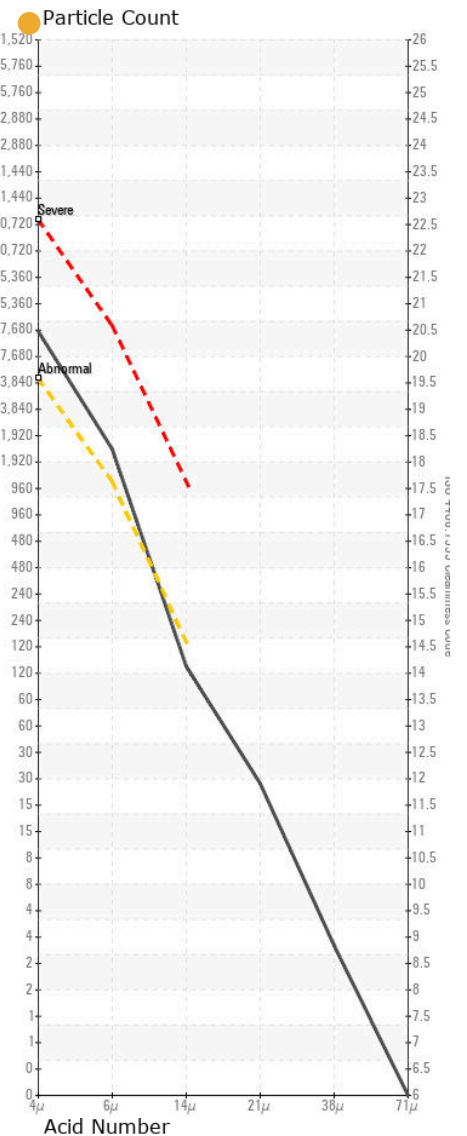
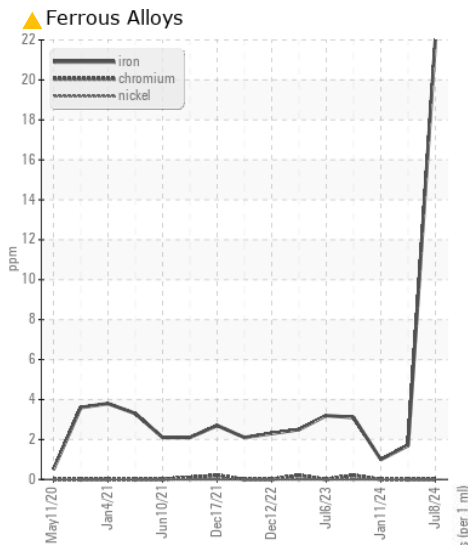
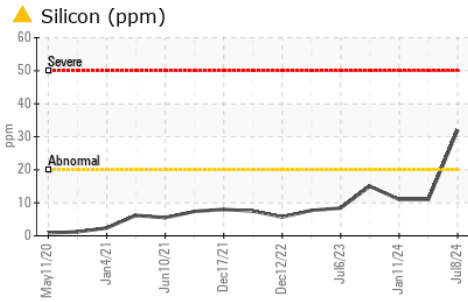
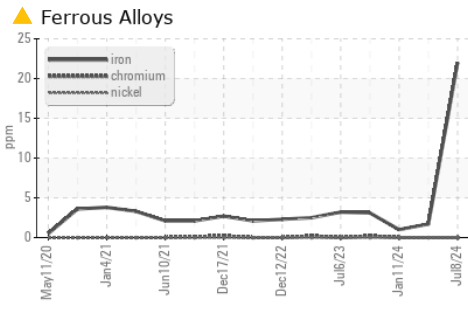
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal.

Silicon	ppm	ASTM D5185m	>20	▲ 32	11	11
Potassium	ppm	ASTM D5185m	>20	2	3	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	● 9290	▲ 10734	1659
Particles >6µm		ASTM D7647	>1300	● 1987	● 2394	295
Particles >14µm		ASTM D7647	>160	116	68	14
Particles >21µm		ASTM D7647	>40	25	14	5
Particles >38µm		ASTM D7647	>10	3	1	1
Particles >71µm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	● 20/18/14	▲ 21/18/13	18/15/11
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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	>0.1	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		3	2	1
Boron	ppm	ASTM D5185m		123	138	102
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		15	16	10
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		57	60	89
Calcium	ppm	ASTM D5185m		3380	3395	3045
Phosphorus	ppm	ASTM D5185m		1202	1132	1157
Zinc	ppm	ASTM D5185m		1392	1406	1356
Sulfur	ppm	ASTM D5185m		9091	8873	6987
Acid Number (AN)	mg KOH/g	ASTM D8045		1.17	1.04	0.98
Visc @ 40°C	cSt	ASTM D445	55	48.8	49.5	49.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0937847
Lab Number : 06232169
Unique Number : 11115662
Test Package : CONST

Received : 10 Jul 2024
Tested : 11 Jul 2024
Diagnosed : 11 Jul 2024 - Don Baldrige

CAROLINA SUNROCK
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 BUTNER, NC
 US 27509

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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)