



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Mobile Fleet
 Machine Id
5215 5215
 Component
Hydraulic System
 Fluid
MOBIL HYDRAULIC 10W (38 GAL)

RECOMMENDATION

We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to metal particles present in this sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0956056	WC0919030	WC0861904
Sample Date		Client Info		09 Jul 2024	09 Apr 2024	29 Dec 2023
Machine Age	hrs	Client Info		12932	12329	11759
Oil Age	hrs	Client Info		552	2268	1698
Filter Age	hrs	Client Info		552	2268	1698
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	Changed
Sample Status				SEVERE	SEVERE	SEVERE

WEAR

The iron level is severe. Moderate concentration of visible metal present.

Iron	ppm	ASTM D5185m	>20	▲ 58	▲ 67	▲ 79
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>10	0	1	2
Lead	ppm	ASTM D5185m	>10	0	1	0
Copper	ppm	ASTM D5185m	>75	<1	6	6
Tin	ppm	ASTM D5185m	>10	0	1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	▲ MODER	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

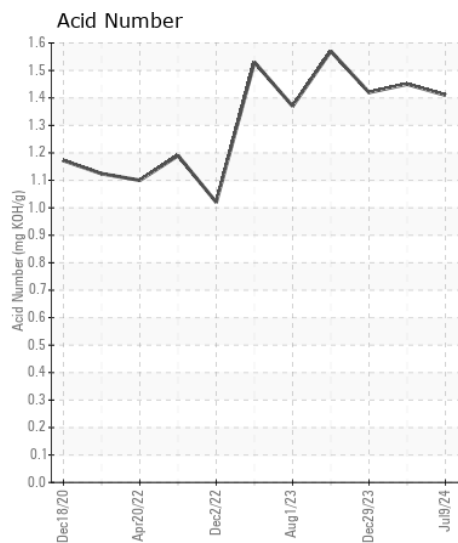
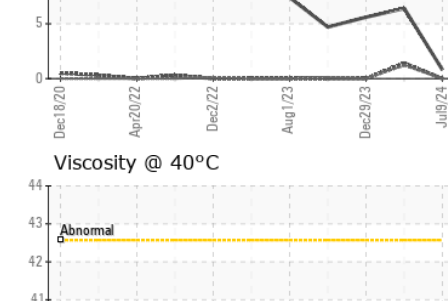
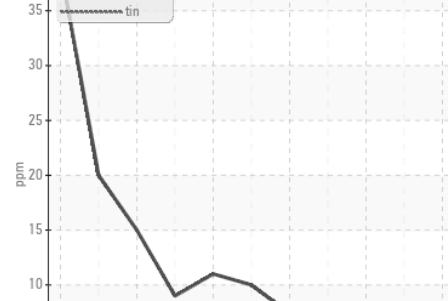
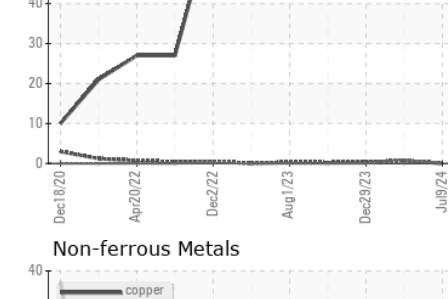
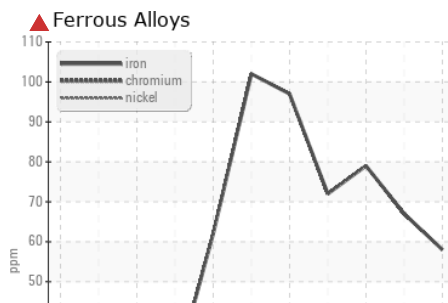
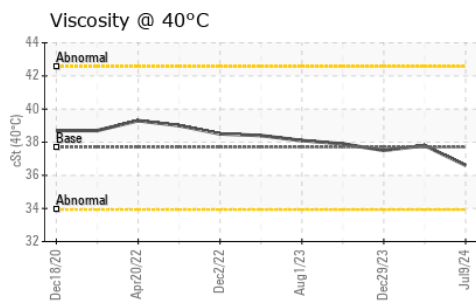
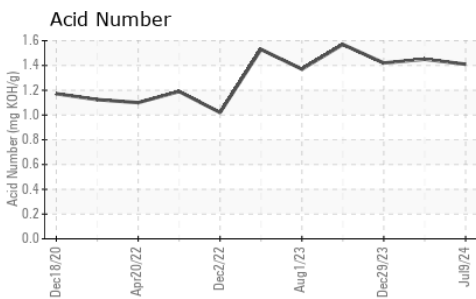
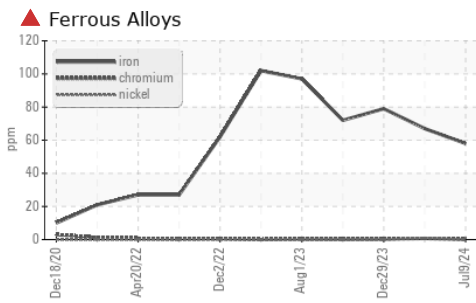
No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185m	>20	4	6	6
Potassium	ppm	ASTM D5185m	>20	0	1	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	---	▲ 10948	● 6276
Particles >6µm		ASTM D7647	>1300	---	1055	571
Particles >14µm		ASTM D7647	>160	---	79	63
Particles >21µm		ASTM D7647	>40	---	21	16
Particles >38µm		ASTM D7647	>10	---	1	0
Particles >71µm		ASTM D7647	>3	---	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	---	▲ 21/17/13	● 20/16/13
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	>0.1	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		<1	0	0
Boron	ppm	ASTM D5185m		4	1	1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	3	2
Manganese	ppm	ASTM D5185m		<1	2	<1
Magnesium	ppm	ASTM D5185m		722	582	697
Calcium	ppm	ASTM D5185m		127	128	96
Phosphorus	ppm	ASTM D5185m		1208	1116	1085
Zinc	ppm	ASTM D5185m		1376	1181	1279
Sulfur	ppm	ASTM D5185m		8190	6674	7627
Acid Number (AN)	mg KOH/g	ASTM D8045		1.41	1.45	1.42
Visc @ 40°C	cSt	ASTM D445	37.7	36.6	37.8	37.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0956056 **Received** : 11 Jul 2024
Lab Number : 06233153 **Tested** : 12 Jul 2024
Unique Number : 11116646 **Diagnosed** : 12 Jul 2024 - Don Baldrige
Test Package : CONST

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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)