



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
Mobile Fleet
Machine Id
5100 5100
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 10 (40 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		WC0861604	WC0852353	WC0726532
Sample Date		Client Info		05 Jan 2024	06 Sep 2023	10 Aug 2022
Machine Age	hrs	Client Info		12204	11569	10374
Oil Age	hrs	Client Info		1835	1200	2150
Filter Age	hrs	Client Info		1835	1200	2150
Oil Changed		Client Info		Not Changed	Not Changed	Changed
Filter Changed		Client Info		Not Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	10	16	▲ 35
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	5	5
Lead	ppm	ASTM D5185m	>10	0	<1	3
Copper	ppm	ASTM D5185m	>75	2	3	7
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

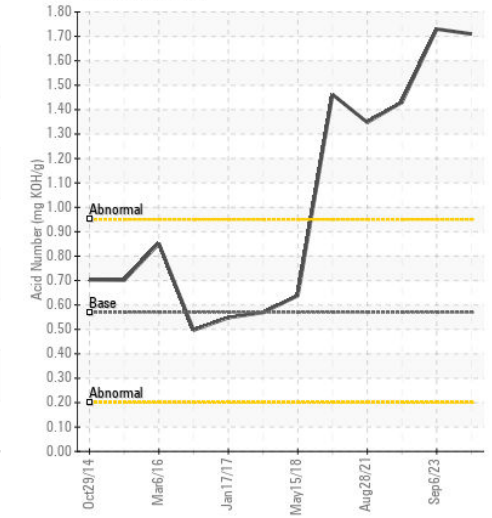
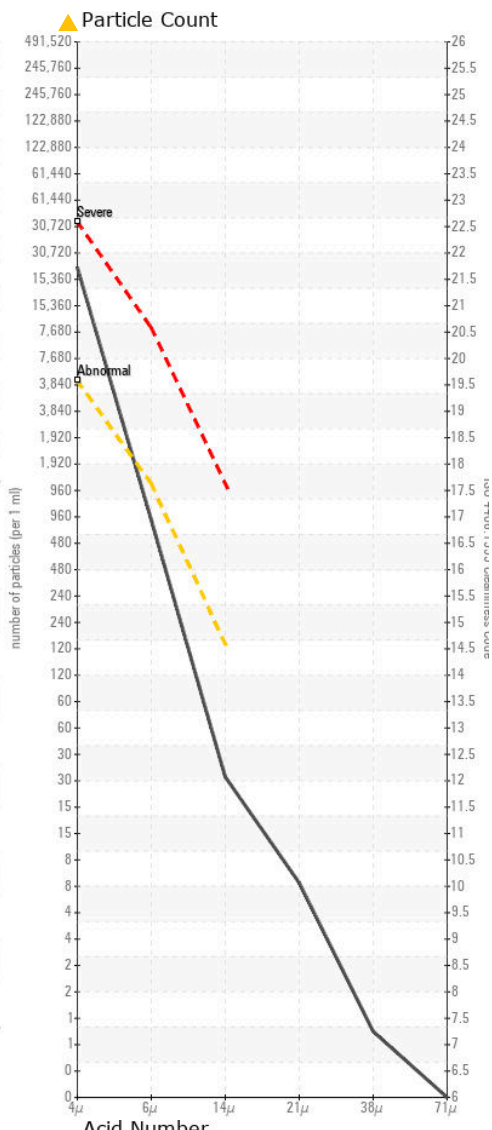
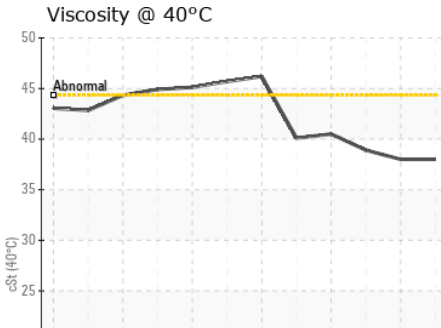
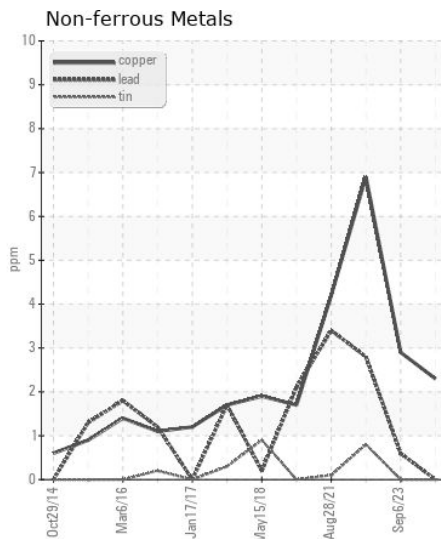
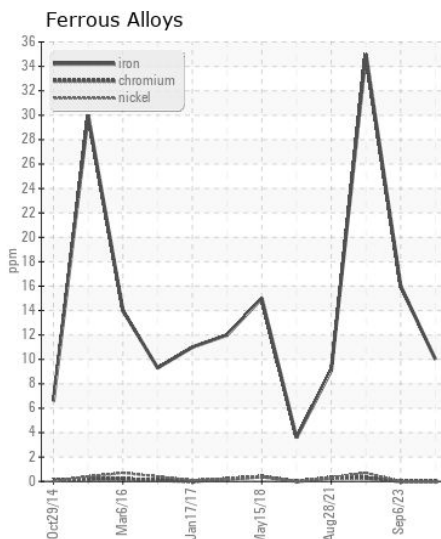
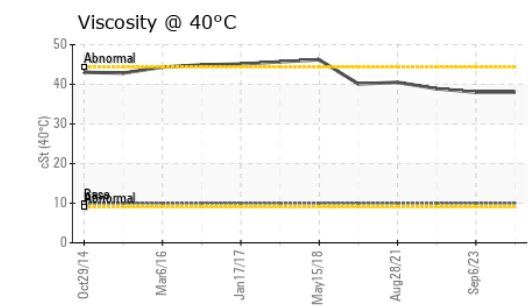
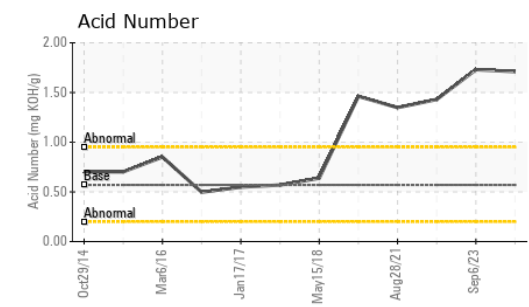
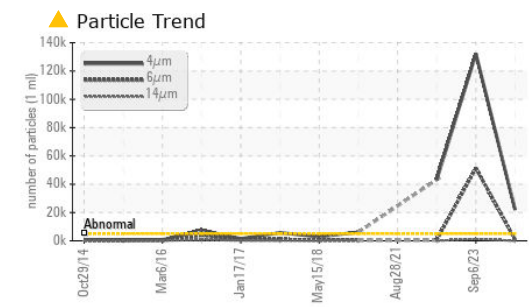
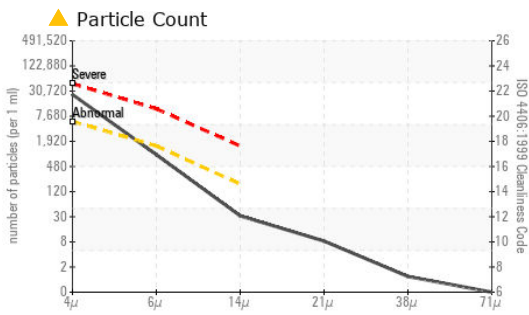
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	8	11	12
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 22026	▲ 132090	▲ 43236
Particles >6µm		ASTM D7647	>1300	809	▲ 51473	647
Particles >14µm		ASTM D7647	>160	28	▲ 1282	37
Particles >21µm		ASTM D7647	>40	7	▲ 269	10
Particles >38µm		ASTM D7647	>10	1	6	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 22/17/12	▲ 24/23/17	▲ 23/17/12
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	LIGHT
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		1	1	5
Boron	ppm	ASTM D5185m	5	0	<1	9
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	<1	2	2
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	25	590	636	615
Calcium	ppm	ASTM D5185m	200	674	827	266
Phosphorus	ppm	ASTM D5185m	300	1113	1079	967
Zinc	ppm	ASTM D5185m	370	1138	1310	1164
Sulfur	ppm	ASTM D5185m	2500	5872	7740	5887
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	1.71	1.73	1.43
Visc @ 40°C	cSt	ASTM D445	10	38.0	38.0	38.9



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0861604 **Received** : 09 Jan 2024
Lab Number : 06055840 **Diagnosed** : 10 Jan 2024
Unique Number : 10821789 **Diagnostician** : 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)