



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
3011 3011
 Component
Lube System
 Fluid
{not provided} (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0861700	WC0392340	WC0489951
Sample Date		Client Info		21 Apr 2024	18 Jul 2023	28 Feb 2023
Machine Age	hrs	Client Info		6644	5190	4463
Oil Age	hrs	Client Info		0	745	0
Filter Age	hrs	Client Info		0	745	0
Oil Changed		Client Info		N/A	Changed	Not Changd
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

The iron level is abnormal.

Iron	ppm	ASTM D5185m	>20	▲ 181	▲ 132	▲ 110
Chromium	ppm	ASTM D5185m	>10	1	<1	<1
Nickel	ppm	ASTM D5185m	>10	1	0	0
Titanium	ppm	ASTM D5185m		4	2	1
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m	>10	● 58	● 32	● 18
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>75	6	4	2
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	LIGHT	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

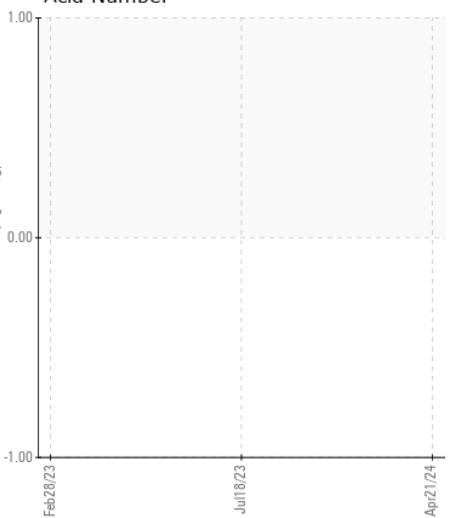
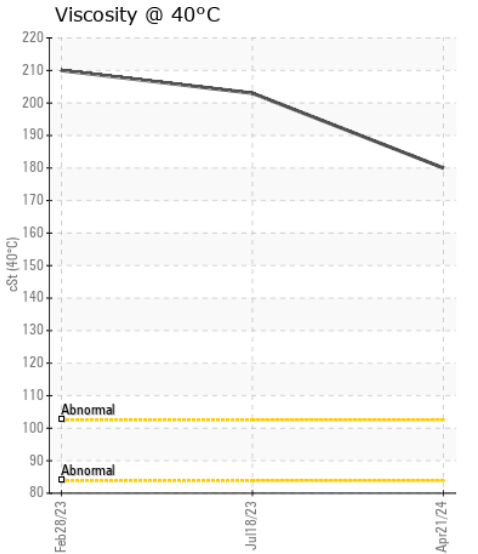
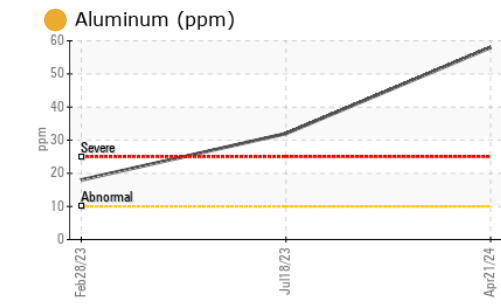
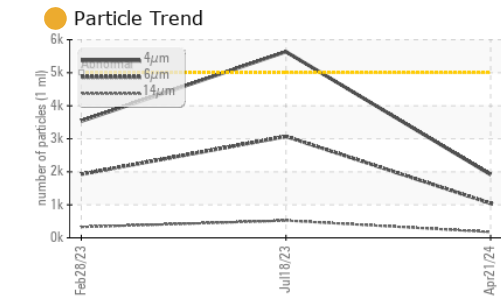
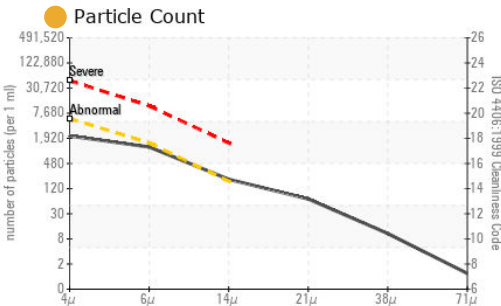
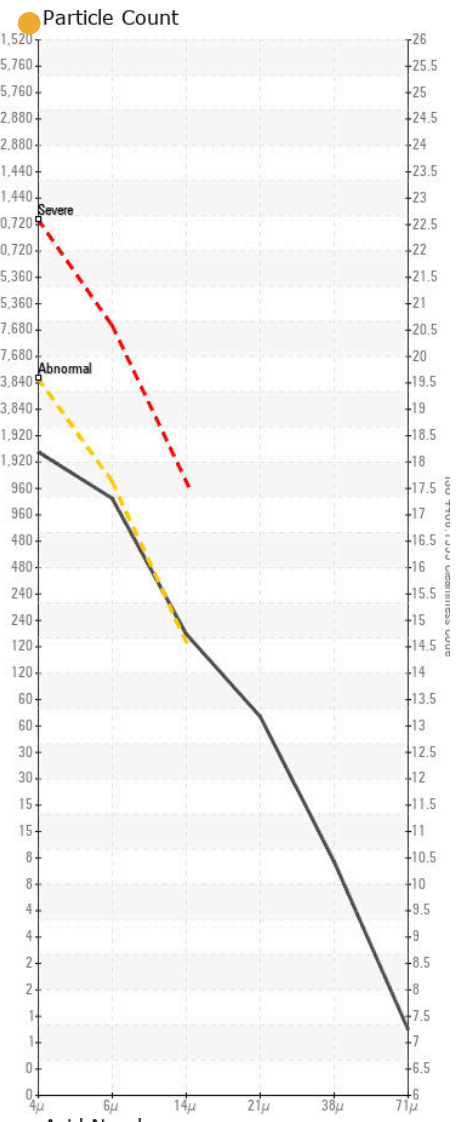
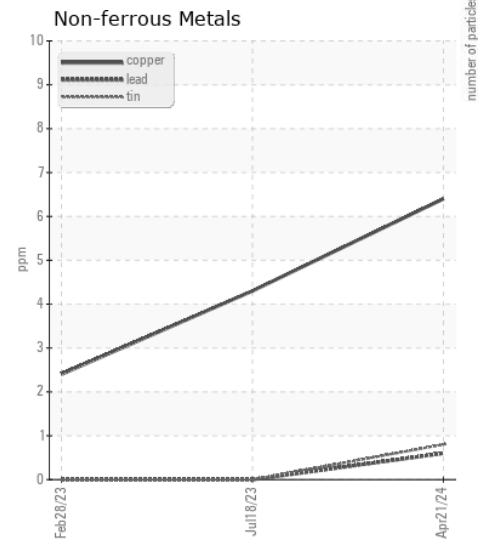
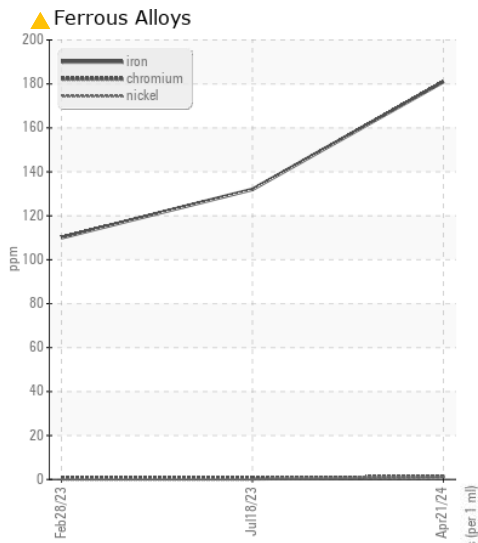
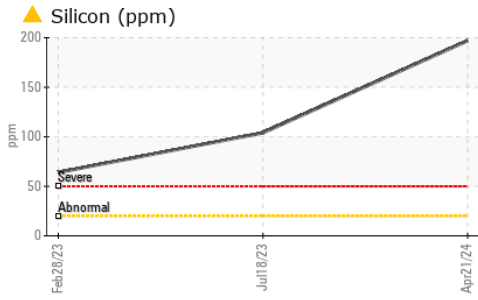
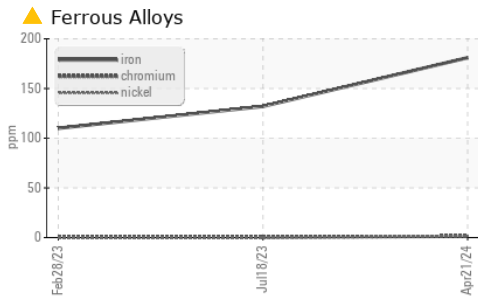
There is a moderate amount of particulates present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>20	▲ 197	▲ 104	▲ 64
Potassium	ppm	ASTM D5185m	>20	17	6	4
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	1914	▲ 5637	3532
Particles >6µm		ASTM D7647	>1300	1043	▲ 3071	● 1924
Particles >14µm		ASTM D7647	>160	● 177	▲ 523	▲ 327
Particles >21µm		ASTM D7647	>40	● 60	▲ 176	▲ 110
Particles >38µm		ASTM D7647	>10	9	▲ 27	● 17
Particles >71µm		ASTM D7647	>3	1	▲ 3	2
Oil Cleanliness		ISO 4406 (c)	>19/17/14	● 18/17/15	▲ 20/19/16	▲ 19/18/16
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	VLITE
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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		17	10	7
Boron	ppm	ASTM D5185m		67	11	4
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	1
Manganese	ppm	ASTM D5185m		3	2	2
Magnesium	ppm	ASTM D5185m		55	12	9
Calcium	ppm	ASTM D5185m		50	43	51
Phosphorus	ppm	ASTM D5185m		485	384	334
Zinc	ppm	ASTM D5185m		136	15	15
Sulfur	ppm	ASTM D5185m		11160	18136	18430
Visc @ 40°C	cSt	ASTM D445		180	203	▲ 210



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0861700 **Received** : 22 Apr 2024
Lab Number : 06156812 **Tested** : 24 Apr 2024
Unique Number : 10992235 **Diagnosed** : 24 Apr 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: 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)