



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area

Mobile Fleet

Machine Id

8023 8023

Component

Hydraulic System

Fluid

MOBIL MOBILFLUID 424 (60 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		WC0902904	WC0885840	WC0819118
Sample Date		Client Info		26 Feb 2024	04 Dec 2023	15 Jun 2023
Machine Age	hrs	Client Info		16540	16047	14951
Oil Age	hrs	Client Info		1589	1096	2390
Filter Age	hrs	Client Info		1589	1096	2390
Oil Changed		Client Info		Changed	Not Chngd	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>30	29	22	▲ 45
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>2	1	4	<1
Lead	ppm	ASTM D5185m	>10	0	<1	<1
Copper	ppm	ASTM D5185m	>25	<1	<1	2
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

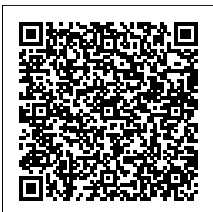
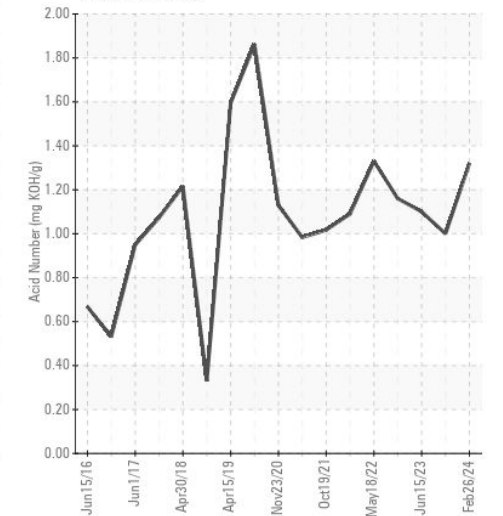
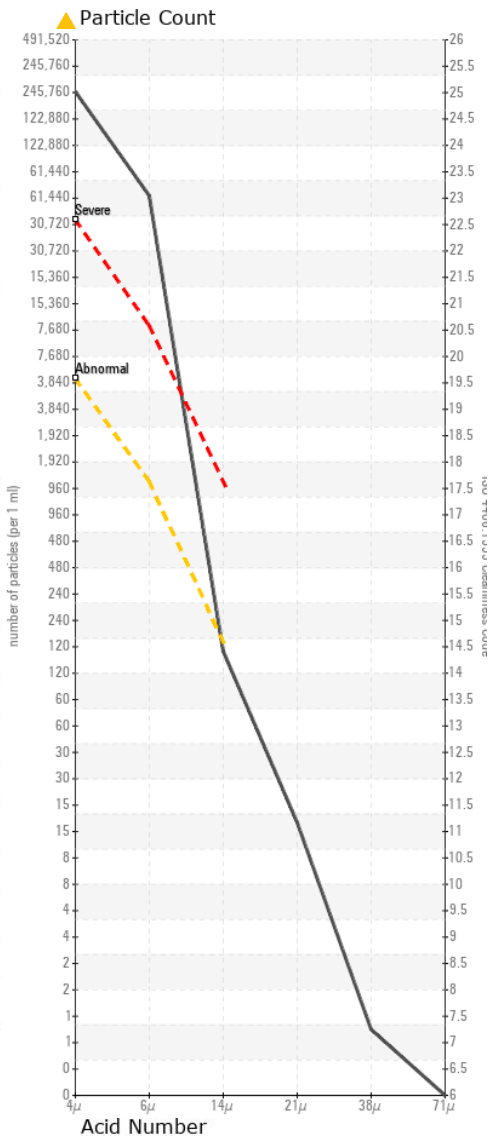
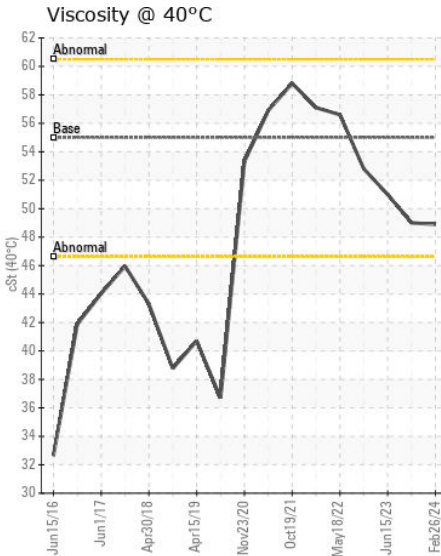
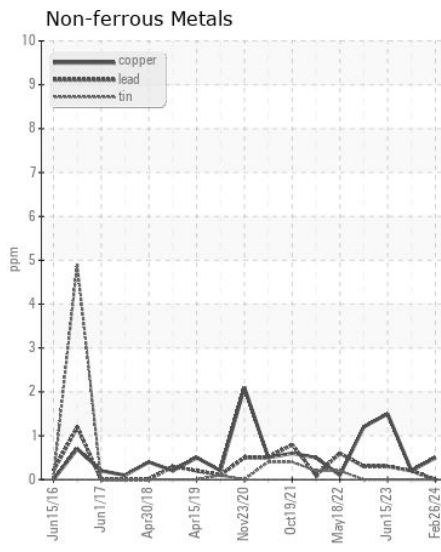
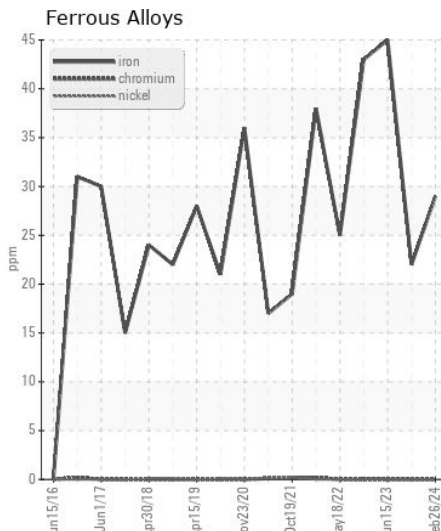
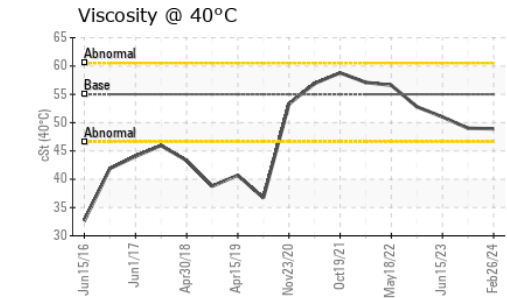
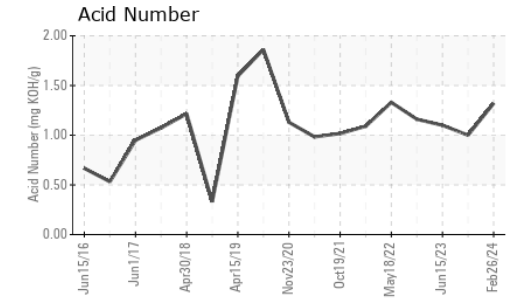
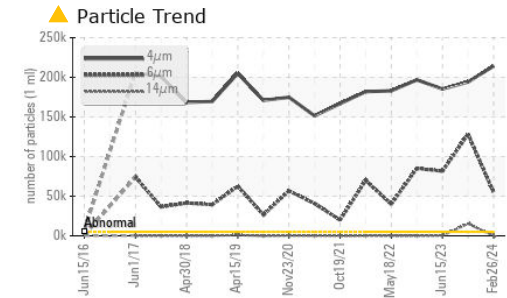
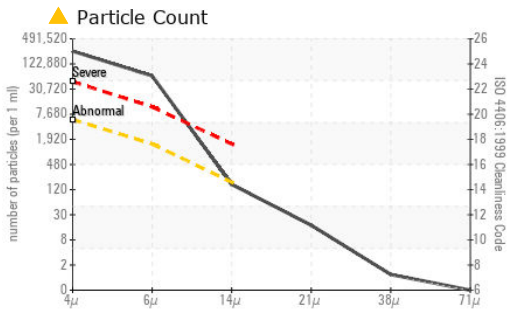
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>25	11	18	14
Potassium	ppm	ASTM D5185m	>20	<1	<1	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 214227	▲ 194207	▲ 185313
Particles >6µm		ASTM D7647	>1300	▲ 54824	▲ 128391	▲ 81538
Particles >14µm		ASTM D7647	>160	141	▲ 15305	▲ 287
Particles >21µm		ASTM D7647	>40	15	▲ 2912	33
Particles >38µm		ASTM D7647	>10	1	▲ 73	1
Particles >71µm		ASTM D7647	>3	0	3	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 25/23/14	▲ 25/24/21	▲ 25/24/15
Silt	scalar	*Visual	NONE	NONE	LIGHT	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. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		1	2	0
Boron	ppm	ASTM D5185m		77	83	103
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		14	14	14
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		187	192	98
Calcium	ppm	ASTM D5185m		2315	2267	2822
Phosphorus	ppm	ASTM D5185m		1023	1023	1013
Zinc	ppm	ASTM D5185m		1280	1260	1275
Sulfur	ppm	ASTM D5185m		6495	6700	6282
Acid Number (AN)	mg KOH/g	ASTM D8045		1.32	1.00	1.10
Visc @ 40°C	cSt	ASTM D445	55	48.9	49.0	51.0



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0902904
Lab Number : 06102852
Unique Number : 10901082
Test Package : CONST
Received : 28 Feb 2024
Tested : 29 Feb 2024
Diagnosed : 29 Feb 2024 - Don Baldrige

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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)