



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
5220 5220
 Component
Front Differential
 Fluid
MOBIL MOBILFLUID 424 (15 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		WC0937919	WC0918654	WC0756972
Sample Date		Client Info		12 Jun 2024	20 Mar 2024	20 Sep 2023
Machine Age	hrs	Client Info		9669	9049	8245
Oil Age	hrs	Client Info		583	885	0
Filter Age	hrs	Client Info		583	885	0
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		Not Changd	Changed	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	71	35	38
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	1	1
Aluminum	ppm	ASTM D5185m	>25	<1	<1	0
Lead	ppm	ASTM D5185m	>25	2	<1	21
Copper	ppm	ASTM D5185m	>100	30	6	▲ 216
Tin	ppm	ASTM D5185m	>10	0	<1	5
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

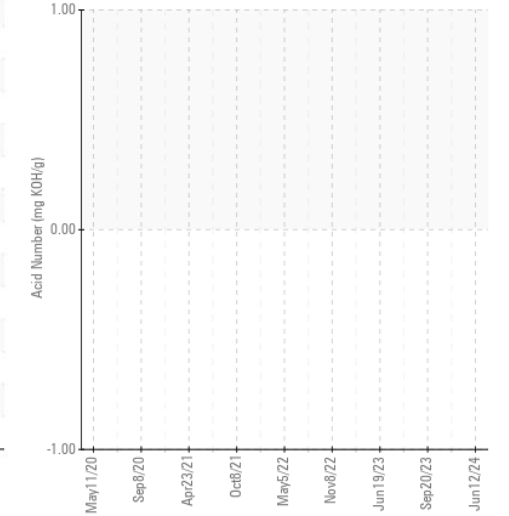
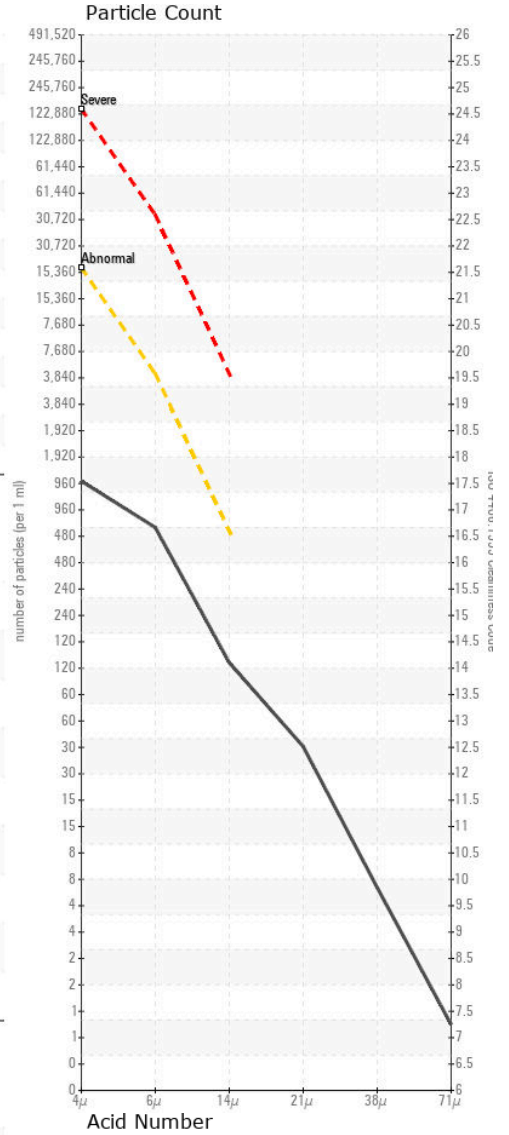
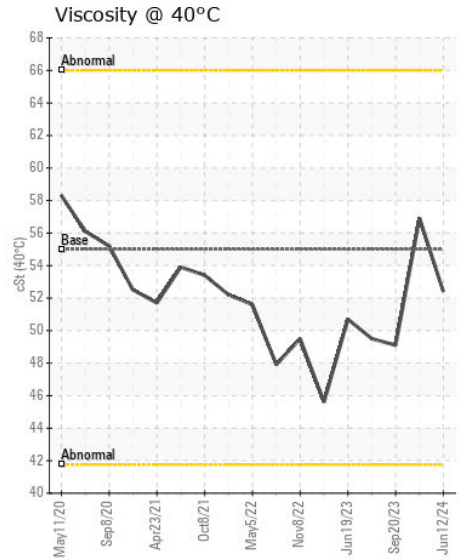
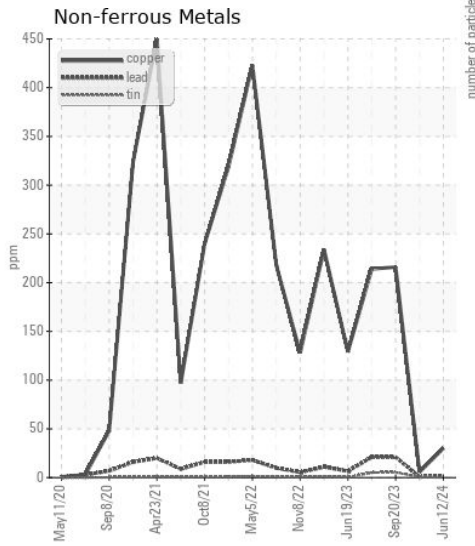
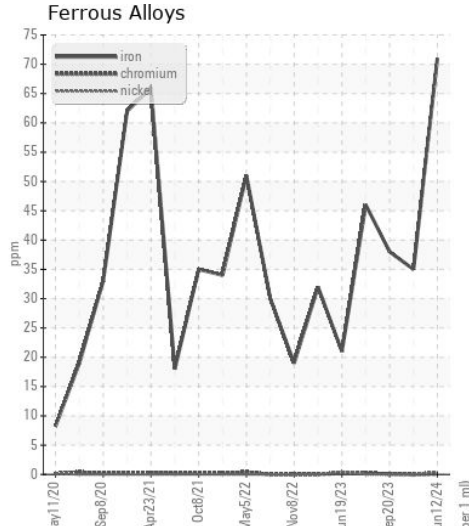
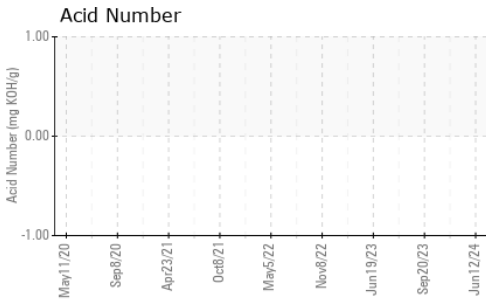
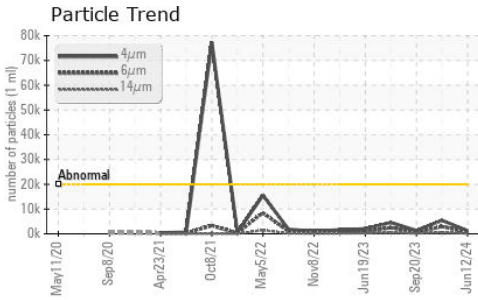
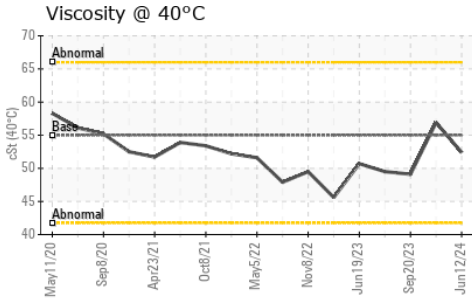
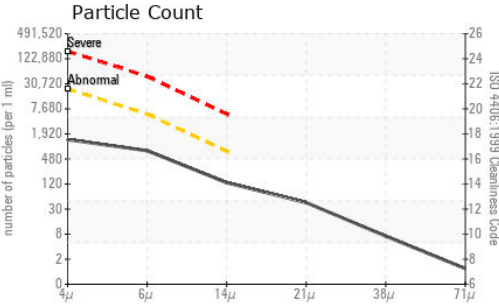
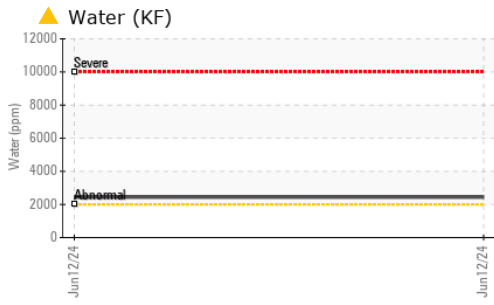
There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>75	4	5	12
Potassium	ppm	ASTM D5185m	>20	3	<1	<1
Water	%	ASTM D6304	>.2	▲ 0.244	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 2440	---	---
Particles >4µm		ASTM D7647	>20000	1226	5429	1340
Particles >6µm		ASTM D7647	>5000	668	2957	730
Particles >14µm		ASTM D7647	>640	114	503	124
Particles >21µm		ASTM D7647	>160	38	170	42
Particles >38µm		ASTM D7647	>40	6	26	6
Particles >71µm		ASTM D7647	>10	1	3	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	17/17/14	20/19/16	18/17/14
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	MODER	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	>.2	0.2%	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		8	7	3
Boron	ppm	ASTM D5185m		1	2	119
Barium	ppm	ASTM D5185m		4	4	0
Molybdenum	ppm	ASTM D5185m		0	0	11
Manganese	ppm	ASTM D5185m		2	2	<1
Magnesium	ppm	ASTM D5185m		99	98	71
Calcium	ppm	ASTM D5185m		3177	3391	3184
Phosphorus	ppm	ASTM D5185m		975	1015	1025
Zinc	ppm	ASTM D5185m		1138	1195	1179
Sulfur	ppm	ASTM D5185m		3712	3830	7562
Visc @ 40°C	cSt	ASTM D445	55	52.4	56.9	49.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0937919
Lab Number : 06209940
Unique Number : 11082804
Test Package : CONST (Additional Tests: KF, PrtCount)

Received : 14 Jun 2024
Tested : 20 Jun 2024
Diagnosed : 20 Jun 2024 - Jonathan Hester

CAROLINA SUNROCK
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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)