



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
5228 5228
 Component
Rear Differential
 Fluid
MOBIL MOBILFLUID 424 (15 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0937793	WC0902921	WC0861632
Sample Date		Client Info		17 May 2024	07 Mar 2024	27 Nov 2023
Machine Age	hrs	Client Info		5031	12599	3795
Oil Age	hrs	Client Info		1236	1934	1243
Filter Age	hrs	Client Info		1236	1934	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	51	40	36
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	<1	2
Lead	ppm	ASTM D5185m	>25	21	15	15
Copper	ppm	ASTM D5185m	>100	90	78	71
Tin	ppm	ASTM D5185m	>10	1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

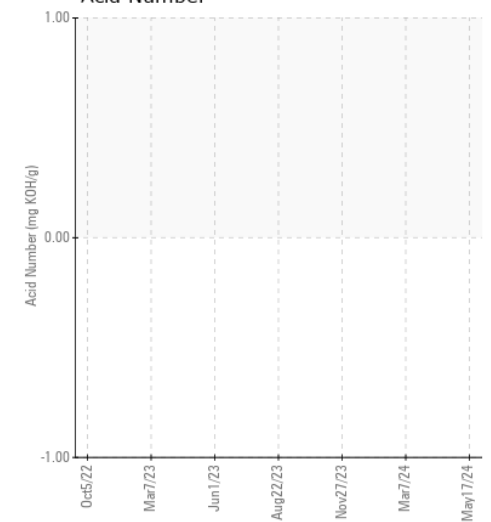
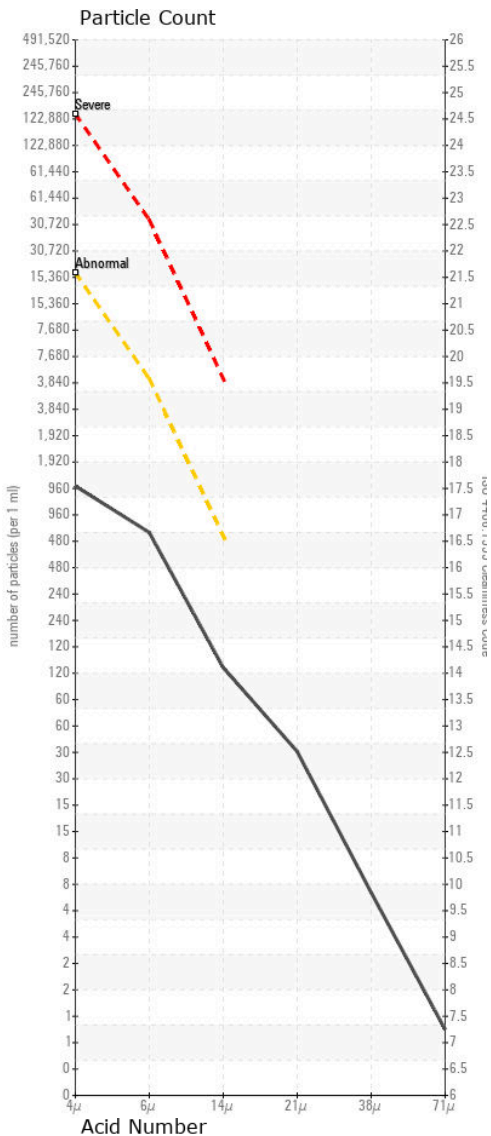
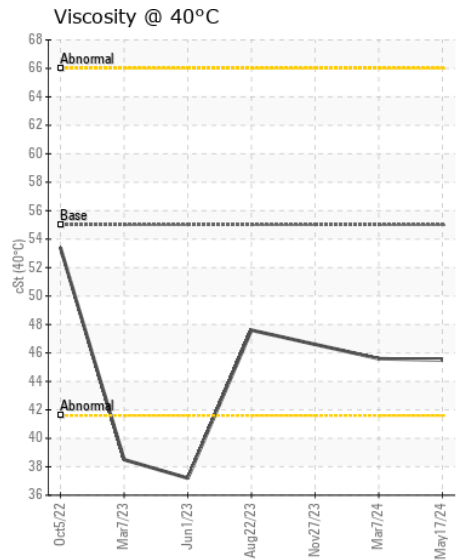
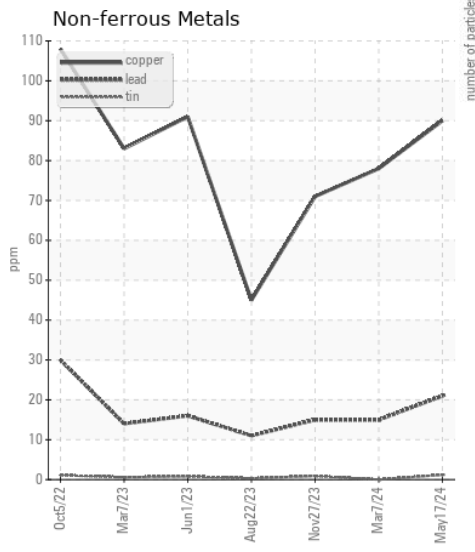
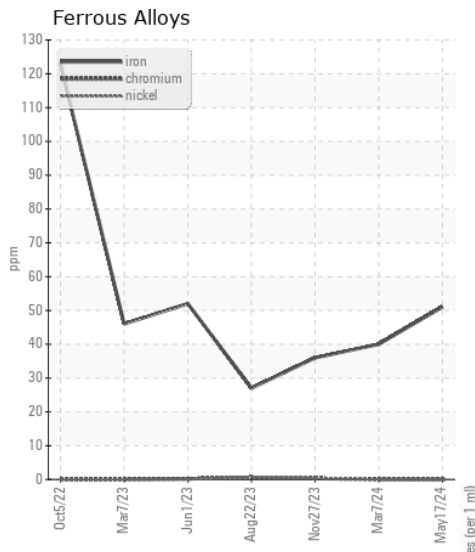
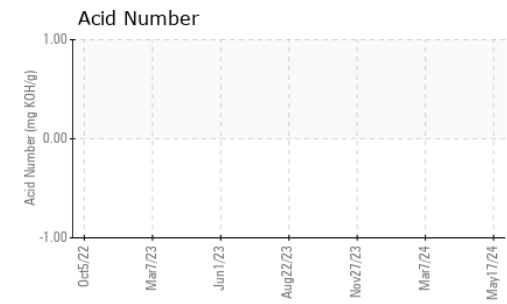
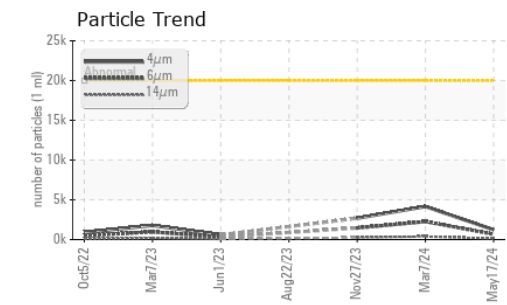
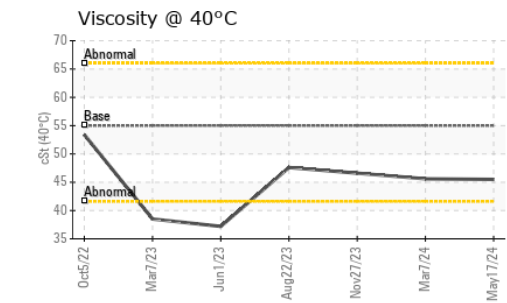
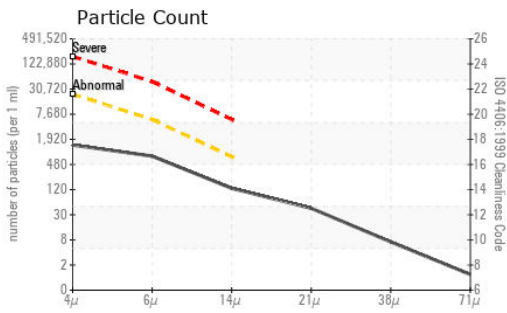
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	15	12	13
Potassium	ppm	ASTM D5185m	>20	0	0	2
Water		WC Method	>.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	1227	4158	2679
Particles >6µm		ASTM D7647	>5000	668	2265	1460
Particles >14µm		ASTM D7647	>640	114	386	248
Particles >21µm		ASTM D7647	>160	38	130	84
Particles >38µm		ASTM D7647	>40	6	20	13
Particles >71µm		ASTM D7647	>10	1	2	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	17/17/14	19/18/16	19/18/15
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER	▲ MODER
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	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		2	2	0
Boron	ppm	ASTM D5185m		105	91	102
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		9	7	9
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		91	76	90
Calcium	ppm	ASTM D5185m		2911	2691	2991
Phosphorus	ppm	ASTM D5185m		1098	937	932
Zinc	ppm	ASTM D5185m		1287	1098	1293
Sulfur	ppm	ASTM D5185m		7530	6431	7290
Visc @ 40°C	cSt	ASTM D445	55	45.5	45.6	46.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0937793
Lab Number : 06186001
Unique Number : 11042753
Test Package : CONST (Additional Tests: PrtCount)

Received : 21 May 2024
Tested : 23 May 2024
Diagnosed : 23 May 2024 - Jonathan Hester

CAROLINA SUNROCK
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 US 27509

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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)