



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL



Area
Contracting
Machine Id
5205 5205
Component
Front Differential
Fluid
MOBIL MOBILFLUID 424 (5 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		WC0919106	WC0740764	WC0630624
Sample Date		Client Info		24 Apr 2024	21 Sep 2022	06 Oct 2021
Machine Age	hrs	Client Info		5802	4613	3952
Oil Age	hrs	Client Info		1189	1305	1909
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	Changed	Not Chngd
Filter Changed		Client Info		Not Chngd	Changed	Not Chngd
Sample Status				ATTENTION	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	143	▲ 523	440
Chromium	ppm	ASTM D5185m	>10	<1	3	2
Nickel	ppm	ASTM D5185m	>10	0	2	3
Titanium	ppm	ASTM D5185m		<1	1	1
Silver	ppm	ASTM D5185m		0	0	1
Aluminum	ppm	ASTM D5185m	>25	2	7	5
Lead	ppm	ASTM D5185m	>25	2	8	9
Copper	ppm	ASTM D5185m	>100	8	28	31
Tin	ppm	ASTM D5185m	>10	<1	3	3
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	▲ MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

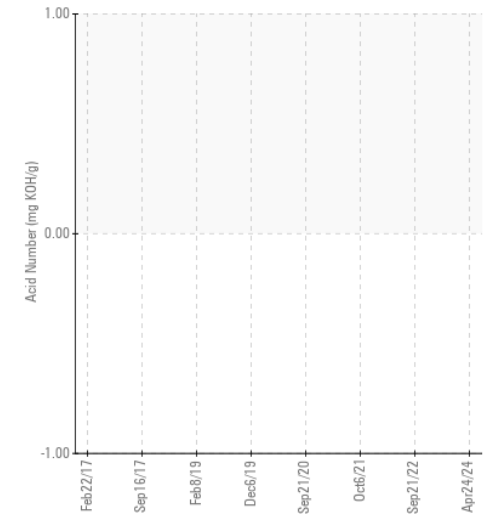
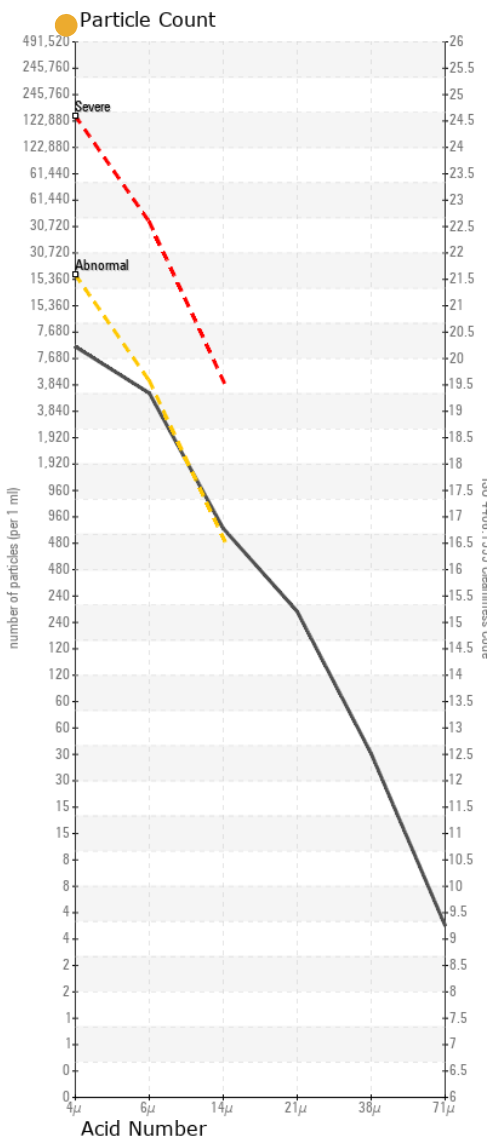
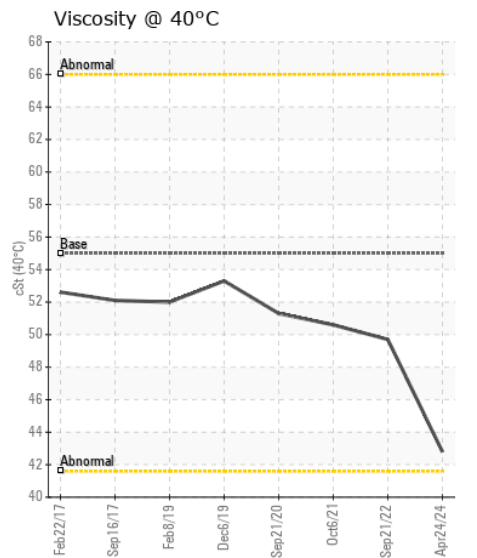
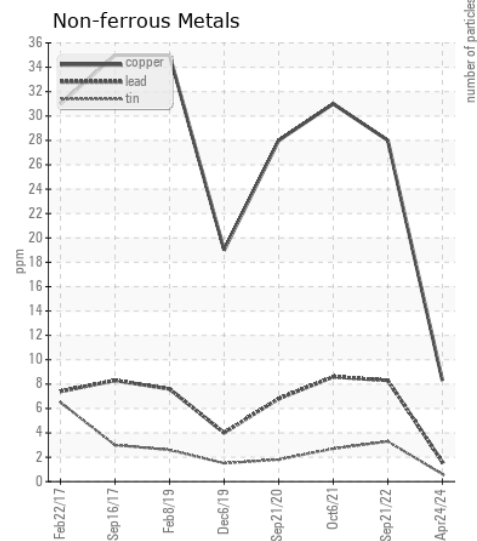
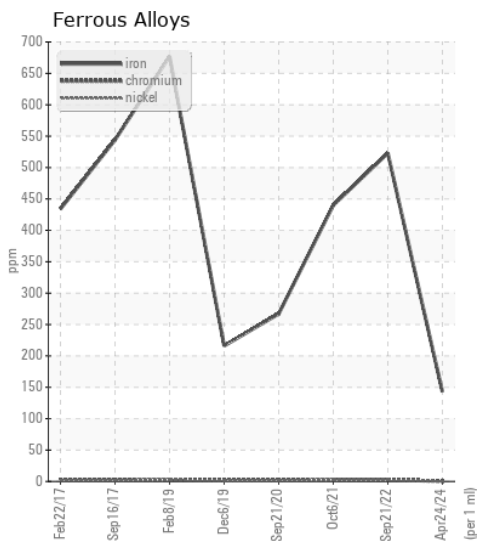
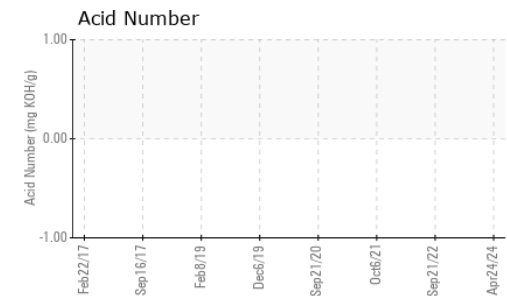
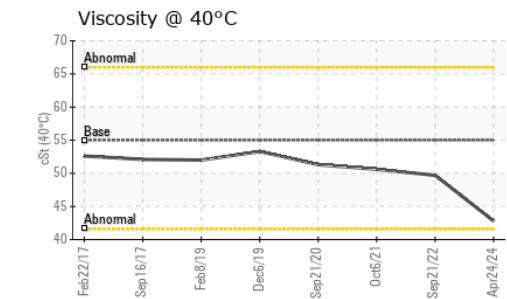
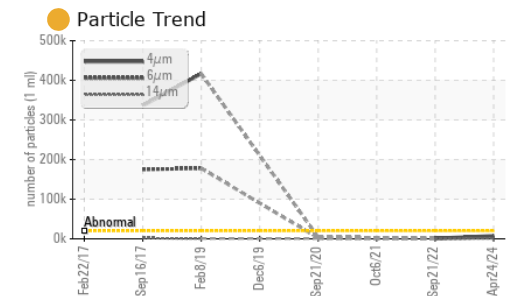
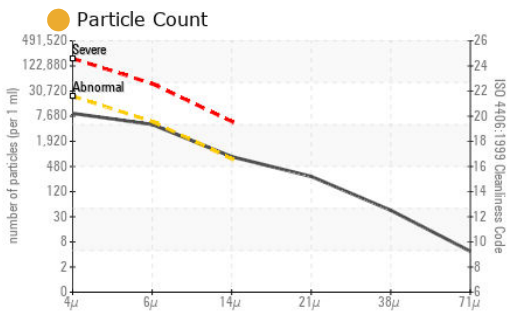
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>75	22	36	32
Potassium	ppm	ASTM D5185m	>20	0	2	2
Water		WC Method	>.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	7804	1325	---
Particles >6µm		ASTM D7647	>5000	4251	722	---
Particles >14µm		ASTM D7647	>640	● 723	123	---
Particles >21µm		ASTM D7647	>160	● 244	41	---
Particles >38µm		ASTM D7647	>40	38	6	---
Particles >71µm		ASTM D7647	>10	4	1	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	● 20/19/17	18/17/14	---
Silt	scalar	*Visual	NONE	NONE	NONE	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	>.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		2	6	6
Boron	ppm	ASTM D5185m		104	75	93
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		18	30	24
Manganese	ppm	ASTM D5185m		3	10	10
Magnesium	ppm	ASTM D5185m		52	42	46
Calcium	ppm	ASTM D5185m		3113	3613	3887
Phosphorus	ppm	ASTM D5185m		999	1054	1174
Zinc	ppm	ASTM D5185m		1228	1172	1423
Sulfur	ppm	ASTM D5185m		5871	5328	4684
Visc @ 40°C	cSt	ASTM D445	55	42.8	49.7	50.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0919106 **Received** : 26 Apr 2024
Lab Number : 06161335 **Tested** : 30 Apr 2024
Unique Number : 10996758 **Diagnosed** : 30 Apr 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: PrtCount)

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)

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