



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
Contracting
Machine Id
5208 5208
Component
Rear Differential
Fluid
MOBIL MOBILFLUID 424 (5 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0918750	WC0808922	WC0688244
Sample Date		Client Info		23 Apr 2024	04 May 2023	06 Apr 2022
Machine Age	hrs	Client Info		5329	4741	4238
Oil Age	hrs	Client Info		588	2640	738
Filter Age	hrs	Client Info		588	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	87	245	218
Chromium	ppm	ASTM D5185m	>10	<1	2	1
Nickel	ppm	ASTM D5185m	>10	0	3	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	3	1	2
Lead	ppm	ASTM D5185m	>25	0	3	3
Copper	ppm	ASTM D5185m	>100	3	14	12
Tin	ppm	ASTM D5185m	>10	0	<1	1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

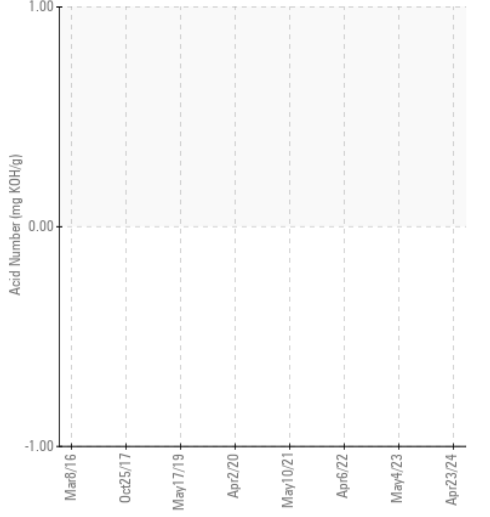
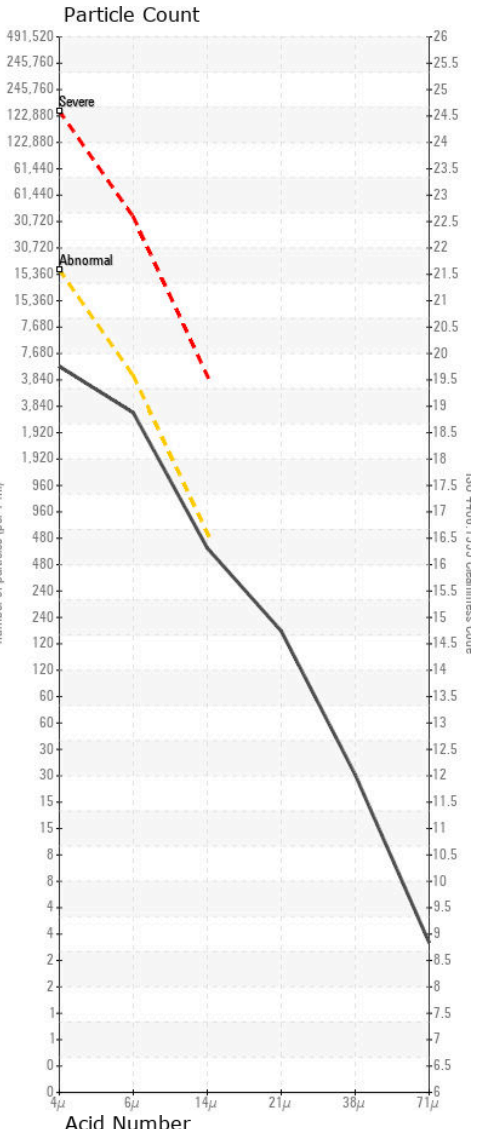
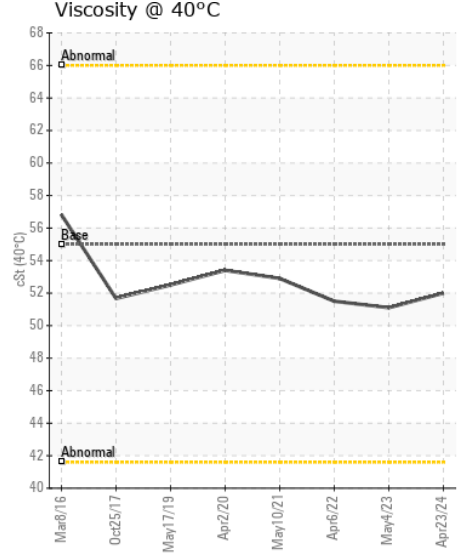
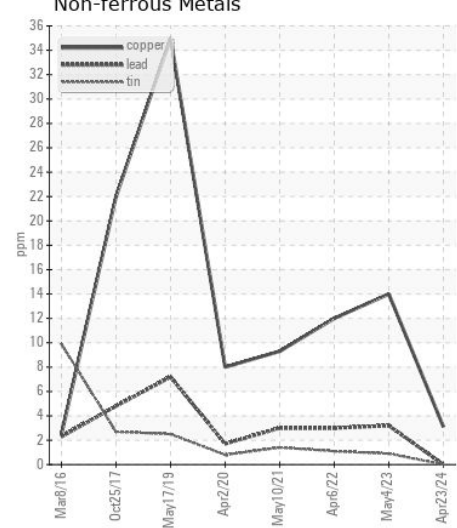
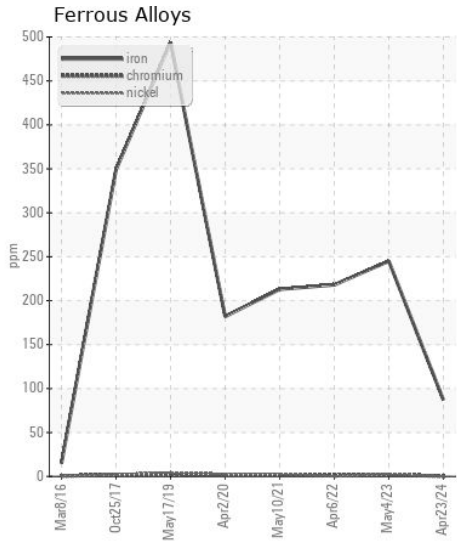
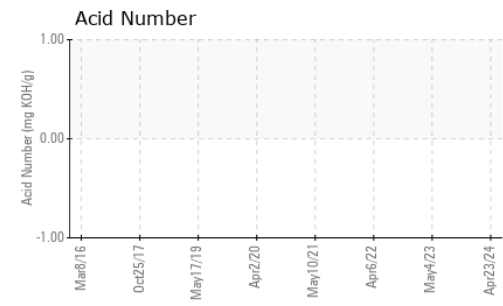
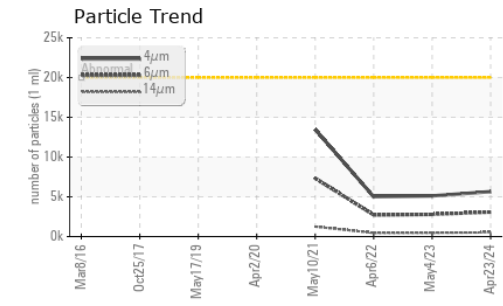
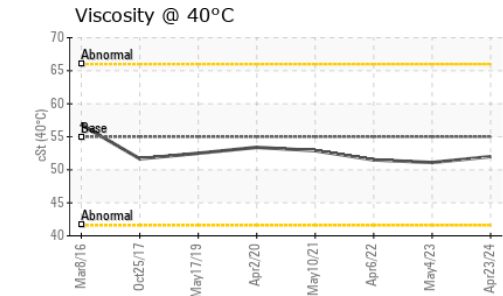
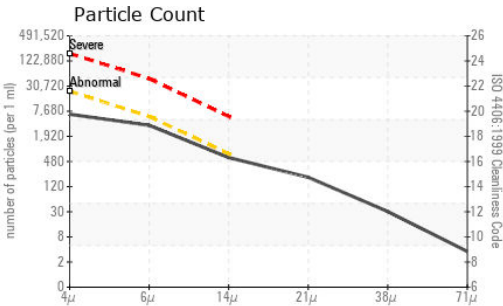
Moderate concentration of visible dirt/debris present in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>75	23	27	23
Potassium	ppm	ASTM D5185m	>20	<1	<1	2
Water		WC Method	>.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	5655	5115	5011
Particles >6µm		ASTM D7647	>5000	3080	2787	2730
Particles >14µm		ASTM D7647	>640	524	474	465
Particles >21µm		ASTM D7647	>160	177	160	156
Particles >38µm		ASTM D7647	>40	27	25	24
Particles >71µm		ASTM D7647	>10	3	3	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/19/16	20/19/16	20/19/16
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	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		2	7	5
Boron	ppm	ASTM D5185m		113	93	98
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		21	8	8
Manganese	ppm	ASTM D5185m		2	6	5
Magnesium	ppm	ASTM D5185m		47	42	33
Calcium	ppm	ASTM D5185m		3295	3585	3492
Phosphorus	ppm	ASTM D5185m		1087	1144	1086
Zinc	ppm	ASTM D5185m		1322	1409	1339
Sulfur	ppm	ASTM D5185m		9141	6179	3967
Visc @ 40°C	cSt	ASTM D445	55	52.0	51.1	51.5



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0918750 **Received** : 25 Apr 2024
Lab Number : 06160227 **Tested** : 26 Apr 2024
Unique Number : 10995650 **Diagnosed** : 26 Apr 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PrtCount)

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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)