



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
OKLAHOMA/102/EG - BACKHOE LOADER
 Machine Id
53.513L [OKLAHOMA^102^EG - BACKHOE LOADER]
 Component
Hydraulic System
 Fluid
MOBIL MOBILTRANS AST 30 (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. (Customer Sample Comment: 5634 hours)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0864414	WC0603280	WC0622954
Sample Date		Client Info		03 May 2024	04 Feb 2023	24 Sep 2021
Machine Age	hrs	Client Info		5634	4697	3420
Oil Age	hrs	Client Info		3420	2280	500
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	9	8	6
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	6	4	4
Lead	ppm	ASTM D5185m	>10	4	5	3
Copper	ppm	ASTM D5185m	>75	5	2	1
Tin	ppm	ASTM D5185m	>10	<1	<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

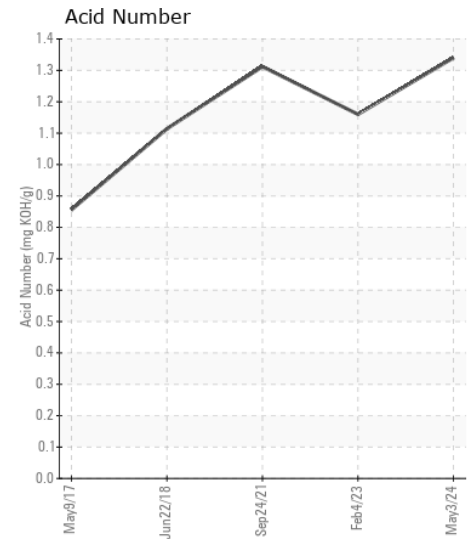
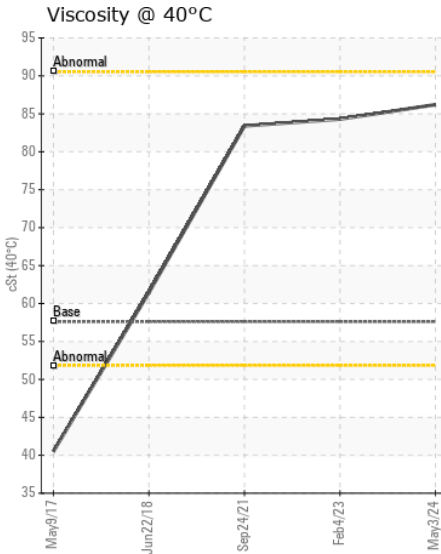
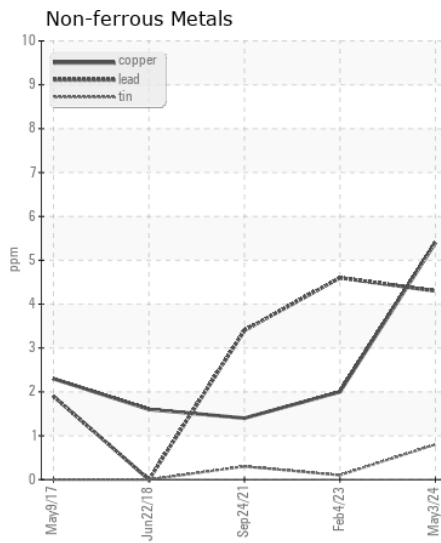
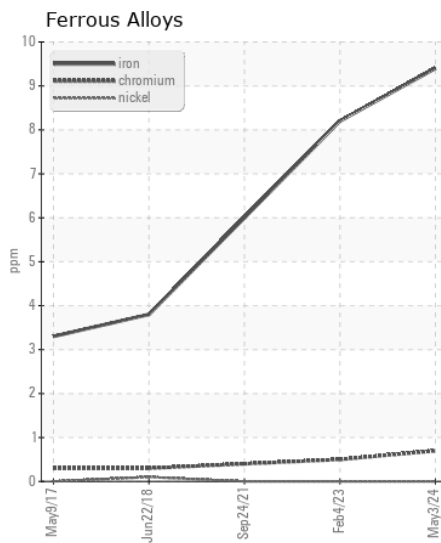
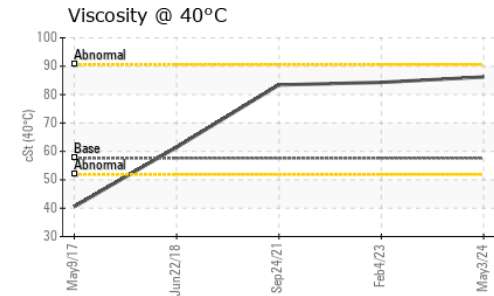
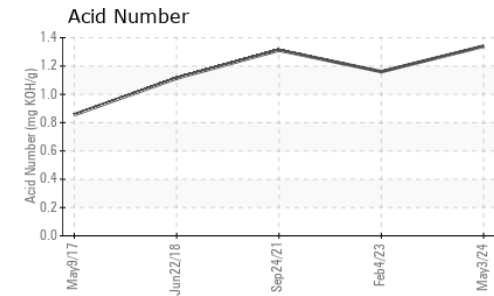
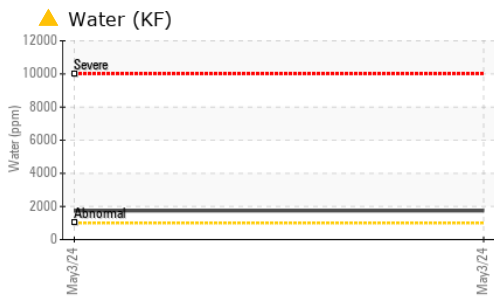
Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>20	15	12	9
Potassium	ppm	ASTM D5185m	>20	<1	4	2
Water	%	ASTM D6304	>0.1	▲ 0.174	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 1740	---	---
Particles >4µm		ASTM D7647		---	8250	3804
Particles >6µm		ASTM D7647	>2500	---	1685	349
Particles >14µm		ASTM D7647	>640	---	98	19
Particles >21µm		ASTM D7647	>160	---	24	5
Particles >38µm		ASTM D7647	>40	---	2	0
Particles >71µm		ASTM D7647	>10	---	0	0
Oil Cleanliness		ISO 4406 (c)	>-/18/16	---	20/18/14	19/16/11
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	>0.1	0.2%	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		4	2	2
Boron	ppm	ASTM D5185m		29	29	24
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	3	<1
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		44	41	13
Calcium	ppm	ASTM D5185m		2522	2320	2372
Phosphorus	ppm	ASTM D5185m		922	855	872
Zinc	ppm	ASTM D5185m		1158	1085	1128
Sulfur	ppm	ASTM D5185m		4716	4108	3644
Acid Number (AN)	mg KOH/g	ASTM D8045		1.34	1.16	1.312
Visc @ 40°C	cSt	ASTM D445	57.6	86.2	84.3	83.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0864414 **Received** : 13 May 2024
Lab Number : 06177082 **Tested** : 17 May 2024
Unique Number : 11023135 **Diagnosed** : 17 May 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: KF)

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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)