



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL



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

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: 5634 hours)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0864412	WC0603260	WC0622948
Sample Date		Client Info		03 May 2024	17 Feb 2023	21 Sep 2021
Machine Age	hrs	Client Info		5634	5700	3420
Oil Age	hrs	Client Info		5634	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				MARGINAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>800	488	▲ 552	▲ 794
Chromium	ppm	ASTM D5185m	>10	7	8	▲ 11
Nickel	ppm	ASTM D5185m	>5	0	<1	1
Titanium	ppm	ASTM D5185m	>15	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>75	2	3	2
Lead	ppm	ASTM D5185m	>10	<1	<1	0
Copper	ppm	ASTM D5185m	>75	10	4	7
Tin	ppm	ASTM D5185m	>8	2	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

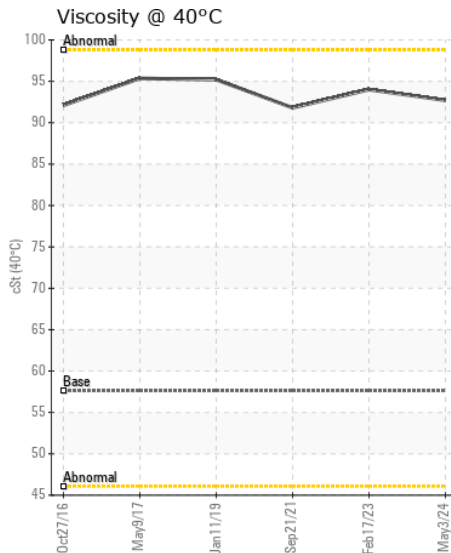
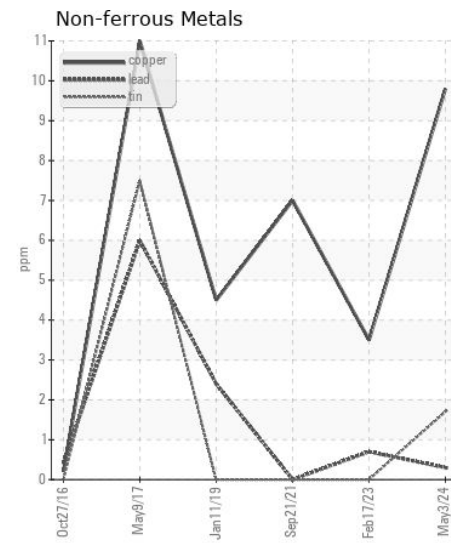
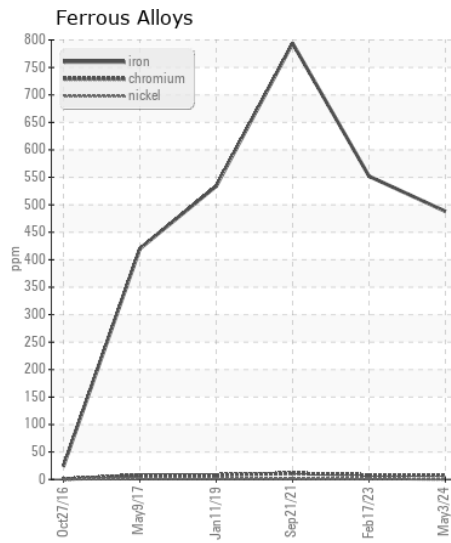
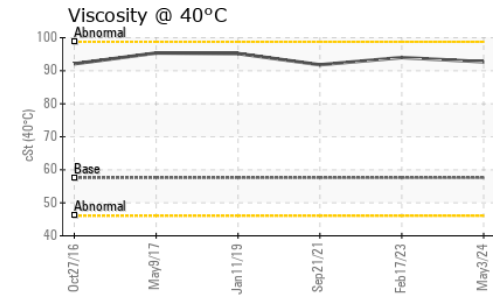
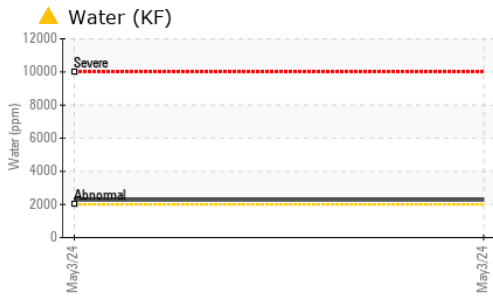
There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>400	15	11	12
Potassium	ppm	ASTM D5185m	>20	0	<1	4
Water	%	ASTM D6304	>0.2	▲ 0.227	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 2270	---	---
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	>0.2	0.2%	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		4	4	6
Boron	ppm	ASTM D5185m		16	31	23
Barium	ppm	ASTM D5185m		0	0	1
Molybdenum	ppm	ASTM D5185m		<1	2	1
Manganese	ppm	ASTM D5185m		4	4	6
Magnesium	ppm	ASTM D5185m		15	18	16
Calcium	ppm	ASTM D5185m		3183	2939	3076
Phosphorus	ppm	ASTM D5185m		1019	947	995
Zinc	ppm	ASTM D5185m		1255	1210	1122
Sulfur	ppm	ASTM D5185m		5021	6084	3356
Visc @ 40°C	cSt	ASTM D445	57.6	92.7	94.0	91.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0864412 **Received** : 13 May 2024
Lab Number : 06177536 **Tested** : 15 May 2024
Unique Number : 11023589 **Diagnosed** : 15 May 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF)

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 US 67213
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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)