



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
OKLAHOMA/102/EG - MOTOR GRADER
Machine Id
78.255 [OKLAHOMA^102^EG - MOTOR GRADER]
Component
Hydraulic System
Fluid
MOBIL MOBILTRANS AST 30 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: 10215 hrs)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0864273	WC0819954	WC0807916
Sample Date		Client Info		06 Dec 2023	25 Aug 2023	25 May 2023
Machine Age	hrs	Client Info		10215	9852	9450
Oil Age	hrs	Client Info		9450	272	6949
Filter Age	hrs	Client Info		0	0	6949
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

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

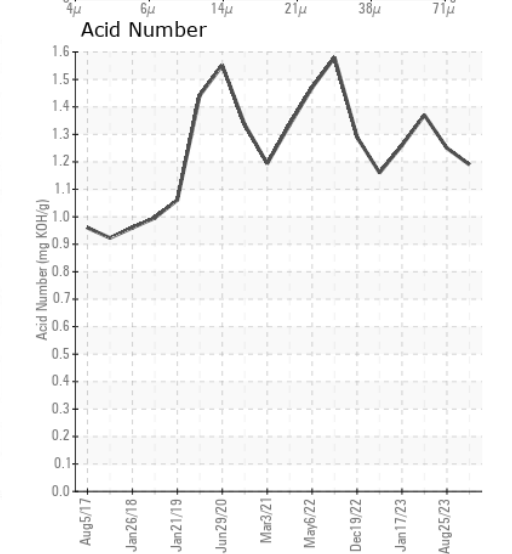
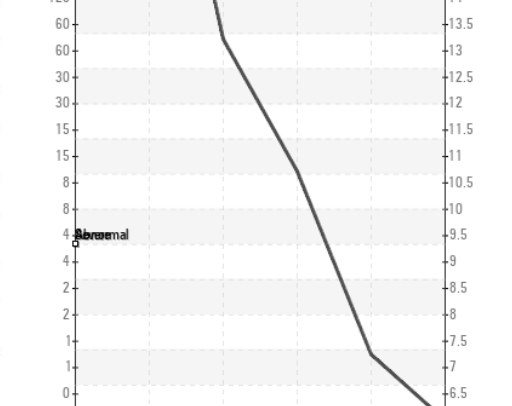
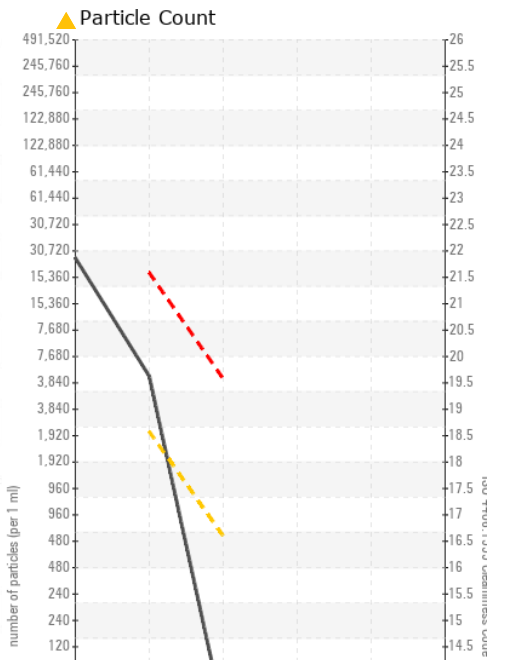
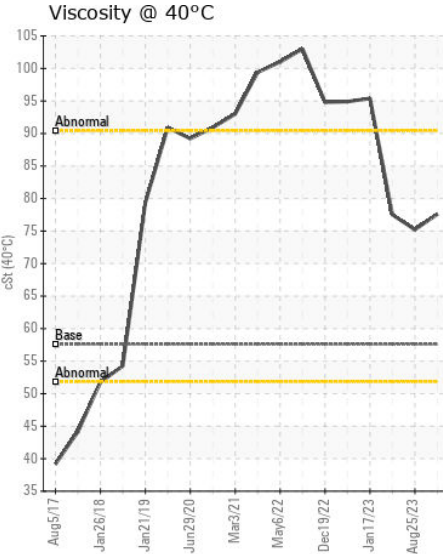
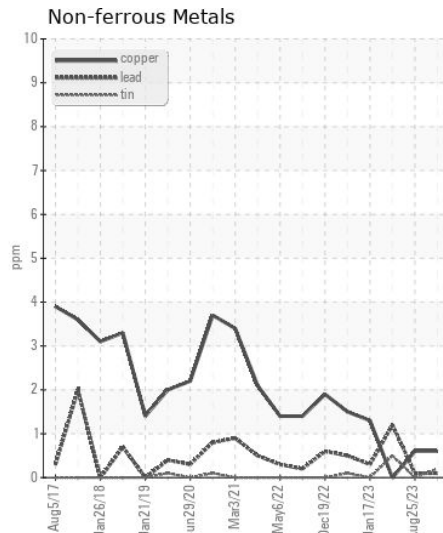
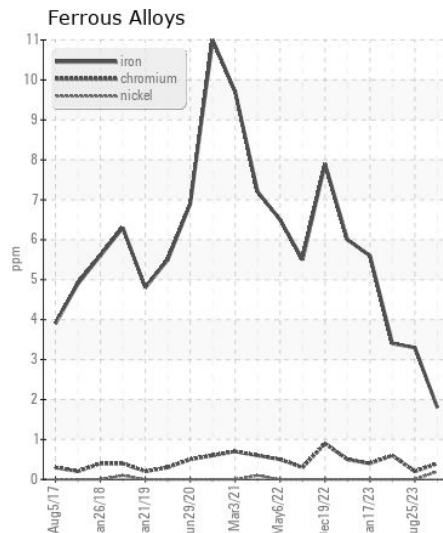
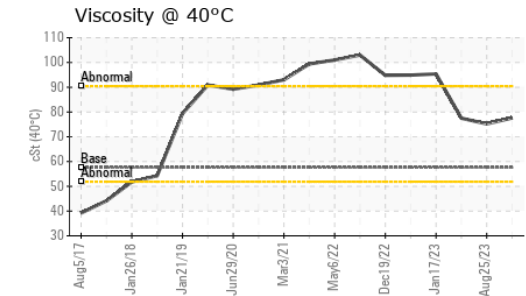
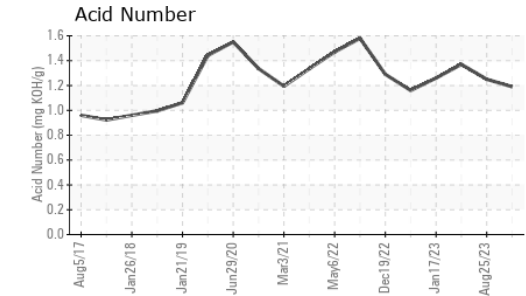
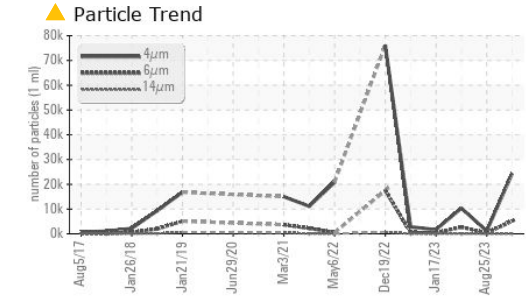
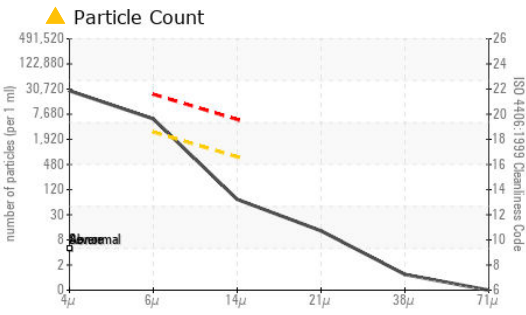
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	8	10	14
Potassium	ppm	ASTM D5185m	>20	2	2	1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		24287	1163	10346
Particles >6µm		ASTM D7647	>2500	▲ 5165	340	▲ 2649
Particles >14µm		ASTM D7647	>640	62	20	107
Particles >21µm		ASTM D7647	>160	11	6	21
Particles >38µm		ASTM D7647	>40	1	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>-/18/16	▲ 22/20/13	17/16/11	▲ 21/19/14
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	>0.1	NEG	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		0	<1	3
Boron	ppm	ASTM D5185m		48	68	70
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		1	1	2
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		17	19	36
Calcium	ppm	ASTM D5185m		3015	3254	3695
Phosphorus	ppm	ASTM D5185m		1030	1072	1175
Zinc	ppm	ASTM D5185m		1261	1332	1477
Sulfur	ppm	ASTM D5185m		4575	4891	5446
Acid Number (AN)	mg KOH/g	ASTM D8045		1.19	1.25	1.37
Visc @ 40°C	cSt	ASTM D445	57.6	77.6	75.2	77.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0864273 **Received** : 18 Dec 2023
Lab Number : 06038569 **Diagnosed** : 21 Dec 2023
Unique Number : 10793798 **Diagnostician** : Jonathan Hester
Test Package : CONST

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 US 67213
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 F: x:

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)