



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
OKLAHOMA/3/EG - LOADER
Machine Id
50.25L [OKLAHOMA^3^EG - LOADER]
Component
Hydraulic System
Fluid
MOBIL MOBILTRANS AST 30 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0887016	WC0746326	WC0662470
Sample Date		Client Info		02 Feb 2024	27 Oct 2022	08 Feb 2022
Machine Age	hrs	Client Info		785	21310	19444
Oil Age	hrs	Client Info		293	1866	935
Filter Age	hrs	Client Info		293	1866	935
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	8	10	7
Chromium	ppm	ASTM D5185m	>10	3	6	7
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	<1	0
Aluminum	ppm	ASTM D5185m	>10	<1	6	1
Lead	ppm	ASTM D5185m	>10	<1	<1	0
Copper	ppm	ASTM D5185m	>75	6	2	<1
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

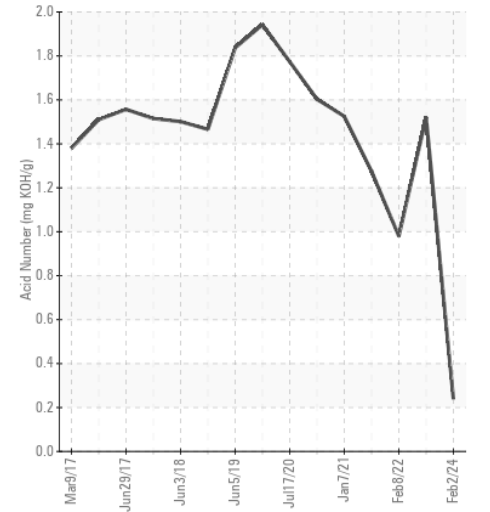
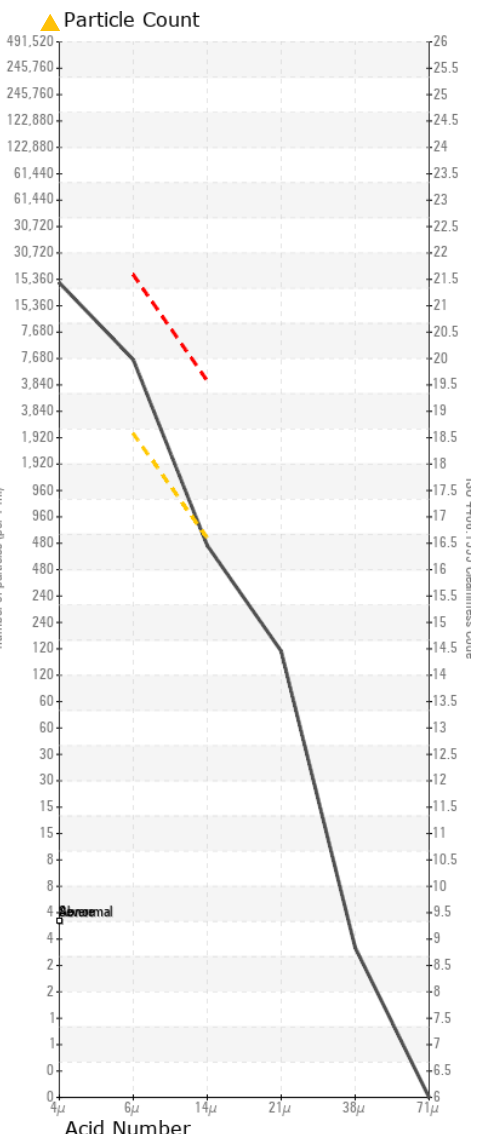
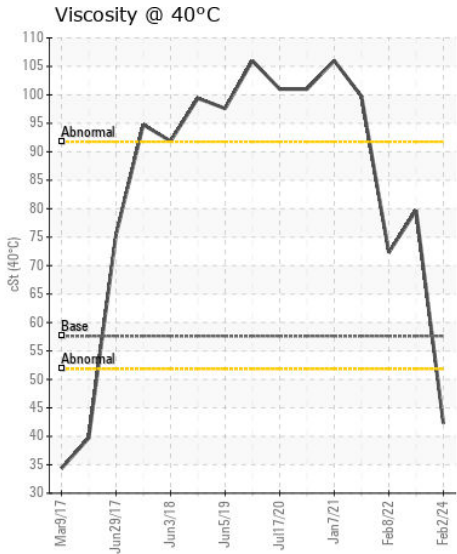
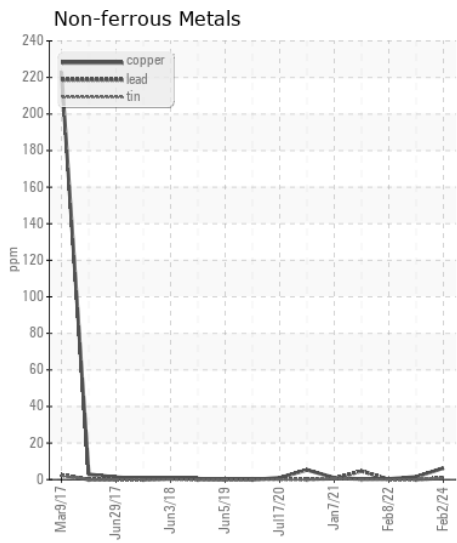
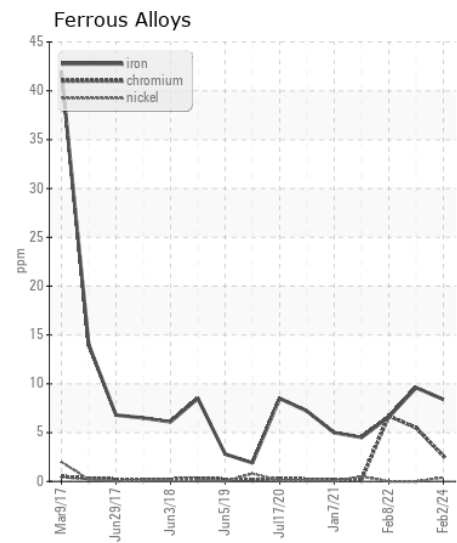
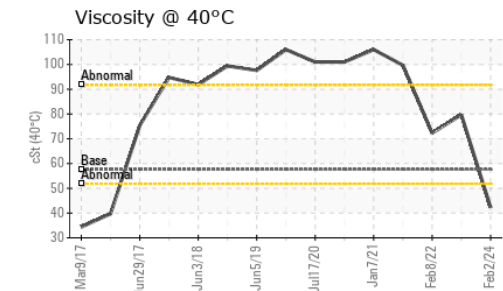
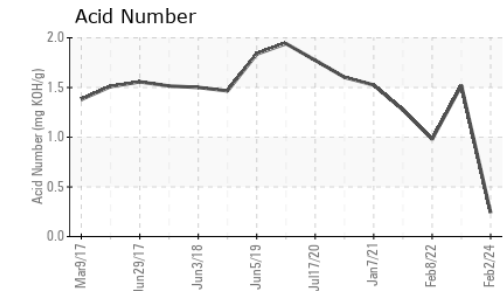
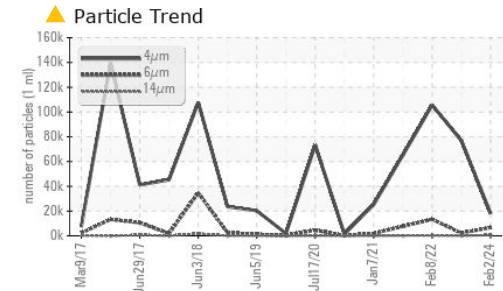
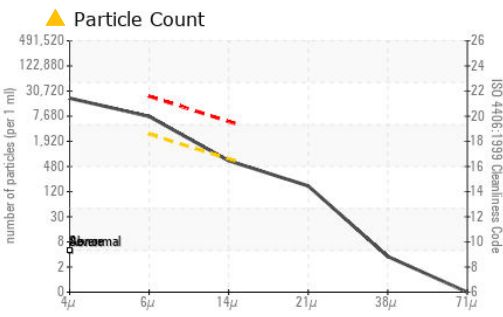
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	3	14	10
Potassium	ppm	ASTM D5185m	>20	1	3	1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		18002	76889	105565
Particles >6µm		ASTM D7647	>2500	▲ 6586	2184	▲ 13329
Particles >14µm		ASTM D7647	>640	579	77	327
Particles >21µm		ASTM D7647	>160	145	12	43
Particles >38µm		ASTM D7647	>40	3	1	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>-/18/16	▲ 21/20/16	23/18/13	▲ 24/21/16
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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

Confirm oil type. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		0	1	6
Boron	ppm	ASTM D5185m		4	57	78
Barium	ppm	ASTM D5185m		5	0	0
Molybdenum	ppm	ASTM D5185m		1	1	1
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		5	20	28
Calcium	ppm	ASTM D5185m		400	3204	3507
Phosphorus	ppm	ASTM D5185m		658	1054	1161
Zinc	ppm	ASTM D5185m		925	1290	1277
Sulfur	ppm	ASTM D5185m		1900	5526	4105
Acid Number (AN)	mg KOH/g	ASTM D8045		0.24	1.52	0.98
Visc @ 40°C	cSt	ASTM D445	57.6	42.3	79.7	72.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0887016 **Received** : 23 Feb 2024
Lab Number : 06098321 **Tested** : 26 Feb 2024
Unique Number : 10896551 **Diagnosed** : 26 Feb 2024 - Don Baldrige
Test Package : CONST

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Certificate L2367
 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)