



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
OKLAHOMA/102/EG - SKID STEER
 Machine Id
53.152L [OKLAHOMA^102^EG - SKID STEER]
 Component
Hydraulic System
 Fluid
MOBIL MOBILTRANS AST 30 (10 GAL)

RECOMMENDATION

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0886930	WC0746255	WC0713160
Sample Date		Client Info		05 Feb 2024	17 Oct 2022	16 Sep 2022
Machine Age	hrs	Client Info		2607	1904	1775
Oil Age	hrs	Client Info		250	129	1775
Filter Age	hrs	Client Info		250	129	361
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	9	26	27
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		<1	<1	<1
Aluminum	ppm	ASTM D5185m	>10	<1	4	3
Lead	ppm	ASTM D5185m	>10	1	4	3
Copper	ppm	ASTM D5185m	>75	4	15	14
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

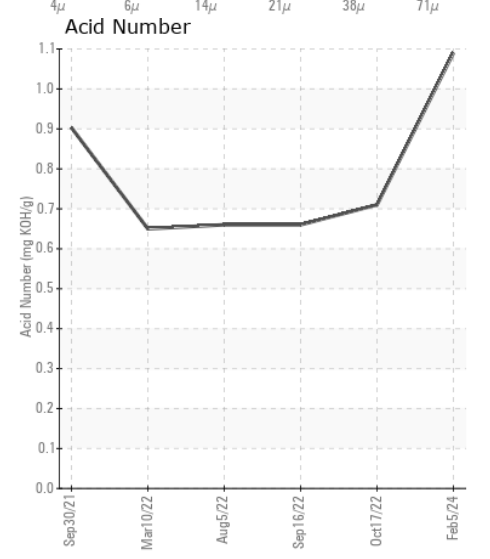
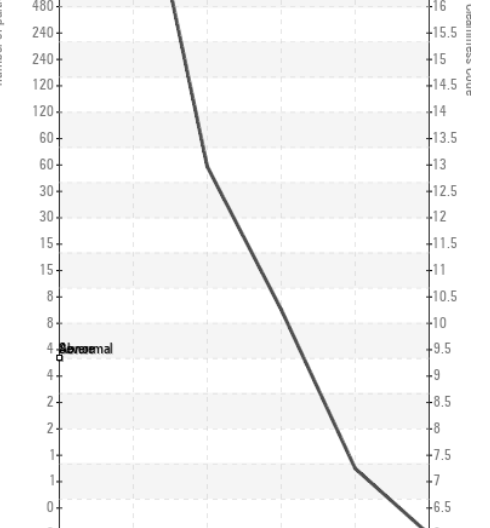
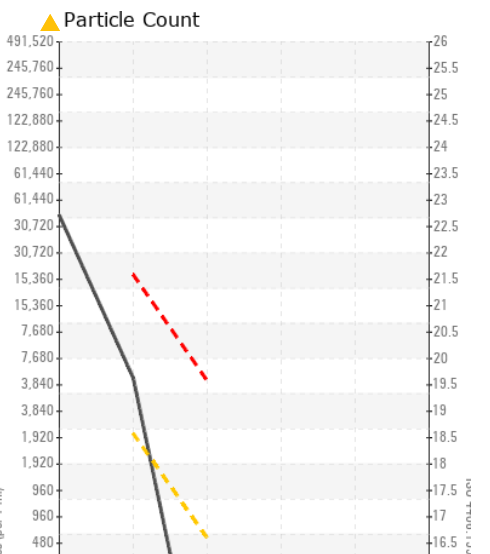
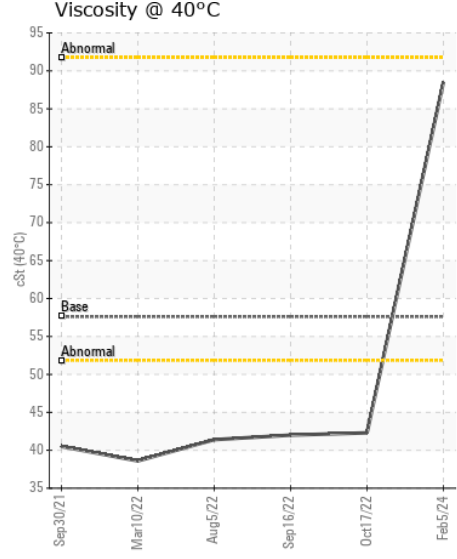
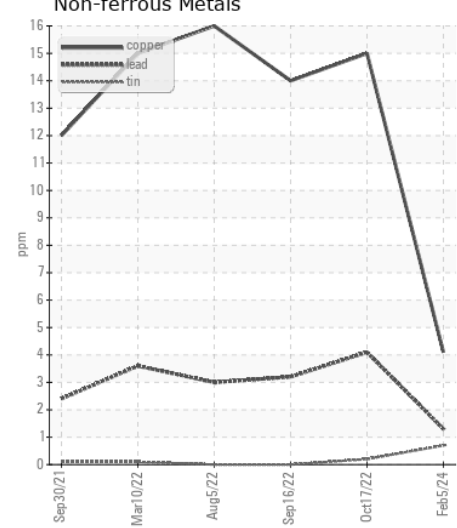
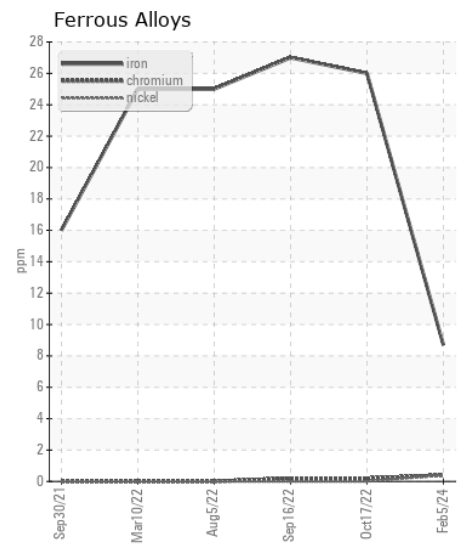
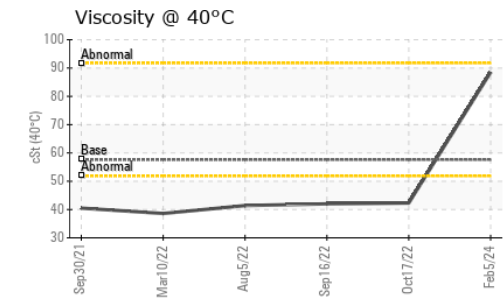
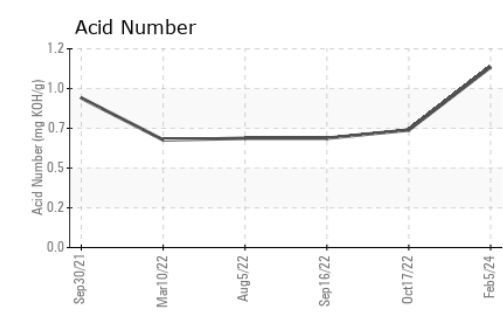
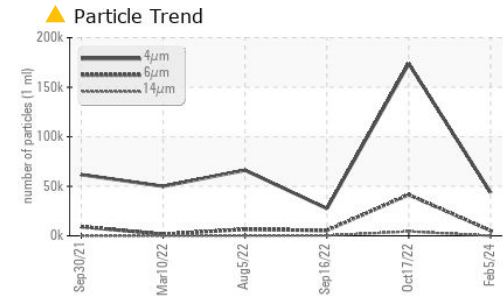
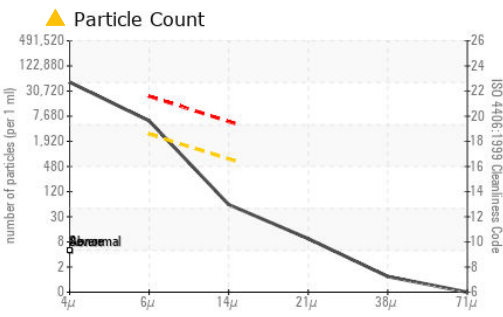
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

Silicon	ppm	ASTM D5185m	>20	8	5	4
Potassium	ppm	ASTM D5185m	>20	2	3	3
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		43589	173742	27506
Particles >6µm		ASTM D7647	>2500	▲ 5178	▲ 41448	▲ 5366
Particles >14µm		ASTM D7647	>640	52	▲ 4383	270
Particles >21µm		ASTM D7647	>160	8	▲ 985	25
Particles >38µm		ASTM D7647	>40	1	▲ 82	0
Particles >71µm		ASTM D7647	>10	0	4	0
Oil Cleanliness		ISO 4406 (c)	>-/18/16	▲ 23/20/13	▲ 25/23/19	▲ 22/20/15
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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 oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185m		0	0	4
Boron	ppm	ASTM D5185m		26	3	1
Barium	ppm	ASTM D5185m		5	0	3
Molybdenum	ppm	ASTM D5185m		1	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		14	5	3
Calcium	ppm	ASTM D5185m		2415	396	300
Phosphorus	ppm	ASTM D5185m		876	744	736
Zinc	ppm	ASTM D5185m		1067	928	897
Sulfur	ppm	ASTM D5185m		4279	2178	2197
Acid Number (AN)	mg KOH/g	ASTM D8045		1.09	0.71	0.66
Visc @ 40°C	cSt	ASTM D445	57.6	88.5	42.3	42.0



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0886930
Lab Number : 06098316
Unique Number : 10896546
Test Package : CONST

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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)