



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
OKLAHOMA/102/EG - SKID STEER
 Machine Id
53.170L [OKLAHOMA^102^EG - SKID STEER]
 Component
Hydraulic System
 Fluid
MOBIL MOBILTRANS AST 30 (10 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0935273	WC0874043	WC0800859
Sample Date		Client Info		25 Jun 2024	09 Dec 2023	06 Jun 2023
Machine Age	hrs	Client Info		2687	2023	1416
Oil Age	hrs	Client Info		2687	500	1416
Filter Age	hrs	Client Info		1271	0	1416
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	24	24	22
Chromium	ppm	ASTM D5185m	>10	0	<1	0
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	3	2
Lead	ppm	ASTM D5185m	>10	<1	2	2
Copper	ppm	ASTM D5185m	>75	8	8	9
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

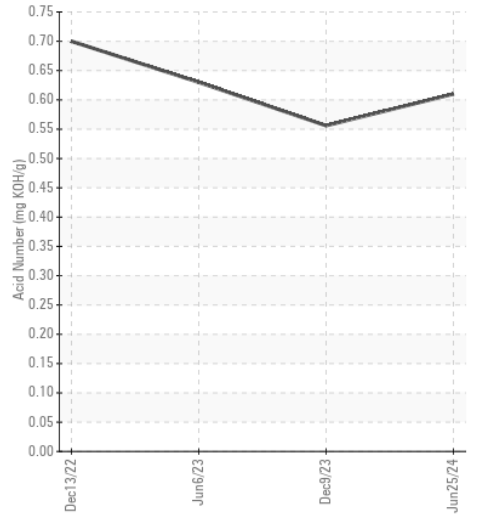
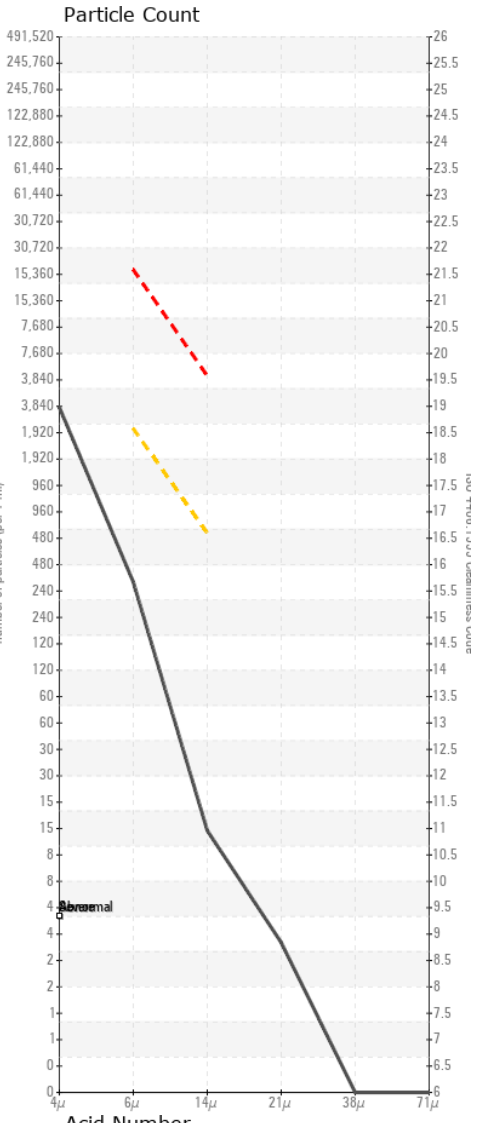
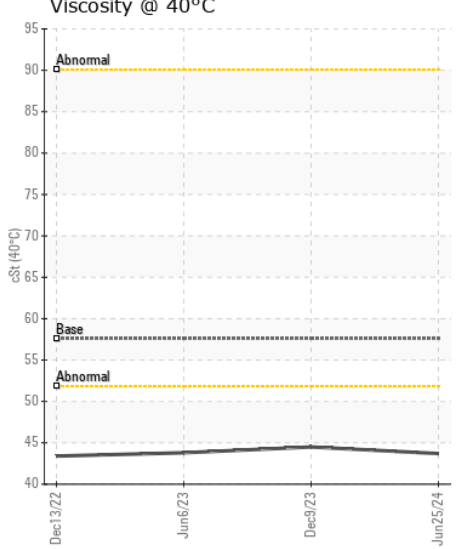
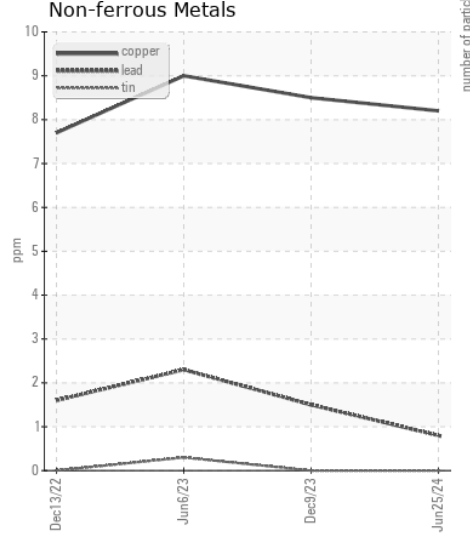
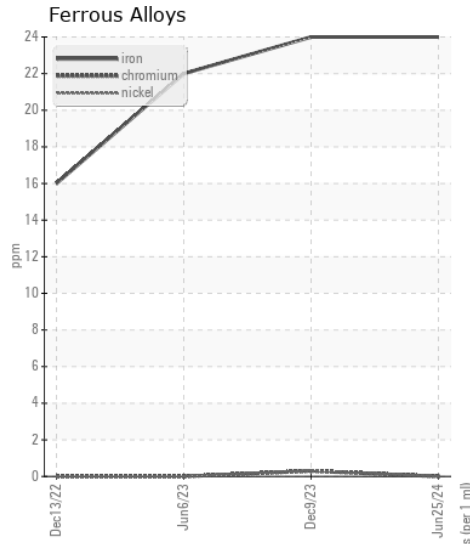
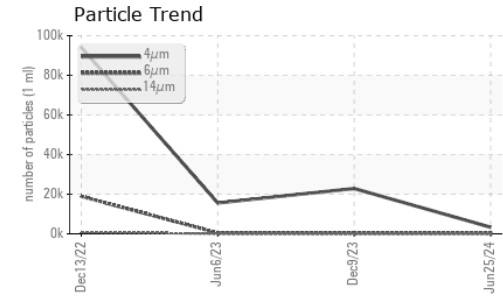
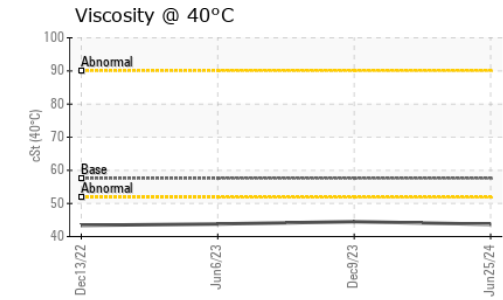
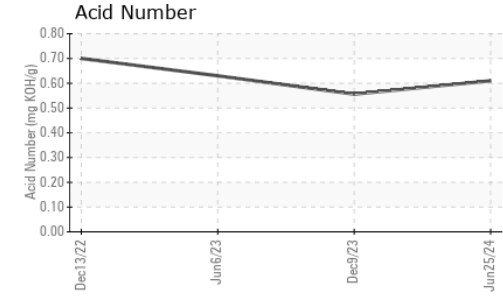
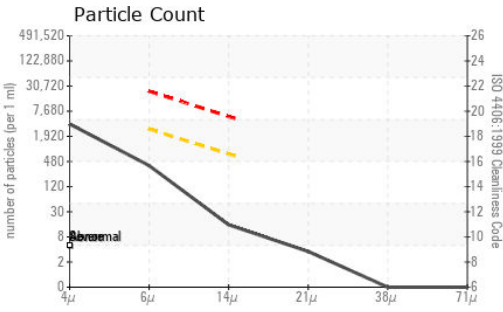
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	5	8	5
Potassium	ppm	ASTM D5185m	>20	<1	1	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		3310	22865	15585
Particles >6µm		ASTM D7647	>2500	336	345	398
Particles >14µm		ASTM D7647	>640	13	6	27
Particles >21µm		ASTM D7647	>160	3	1	9
Particles >38µm		ASTM D7647	>40	0	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>-/18/16	19/16/11	22/16/10	21/16/12
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		4	4	0
Boron	ppm	ASTM D5185m		8	10	10
Barium	ppm	ASTM D5185m		<1	0	2
Molybdenum	ppm	ASTM D5185m		4	4	5
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		50	61	58
Calcium	ppm	ASTM D5185m		527	471	497
Phosphorus	ppm	ASTM D5185m		629	664	641
Zinc	ppm	ASTM D5185m		710	828	803
Sulfur	ppm	ASTM D5185m		1978	1930	2178
Acid Number (AN)	mg KOH/g	ASTM D8045		0.61	0.556	0.63
Visc @ 40°C	cSt	ASTM D445	57.6	43.7	44.5	43.8



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0935273 **Received** : 12 Jul 2024
Lab Number : 06234802 **Tested** : 15 Jul 2024
Unique Number : 11123636 **Diagnosed** : 15 Jul 2024 - Don Baldridge
Test Package : CONST

SHERWOOD CONSTRUCTION CO INC
 3219 WEST MAY ST
 WICHITA, KS
 US 67213
 Contact: SHAWN SOUTH
 shawn.south@sherwood.net
 T: x:
 F: x:

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)