



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
KANSAS/44/HY - SKID STEER
Machine Id
53.157L [KANSAS^44^HY - SKID STEER]
Component
Hydraulic System
Fluid
MOBIL MOBILTRANS AST 30 (9)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0918269	WC0918159	WC0833777
Sample Date		Client Info		11 Jun 2024	08 Apr 2024	16 Nov 2023
Machine Age	hrs	Client Info		1937	1836	1513
Oil Age	hrs	Client Info		0	323	1513
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	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	8	6	10
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	<1	1
Lead	ppm	ASTM D5185m	>10	<1	<1	3
Copper	ppm	ASTM D5185m	>75	3	2	3
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

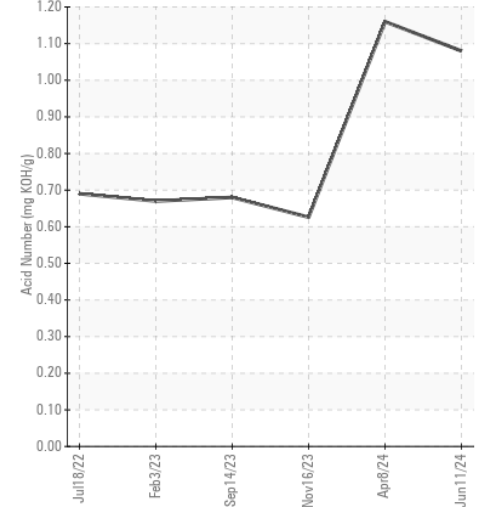
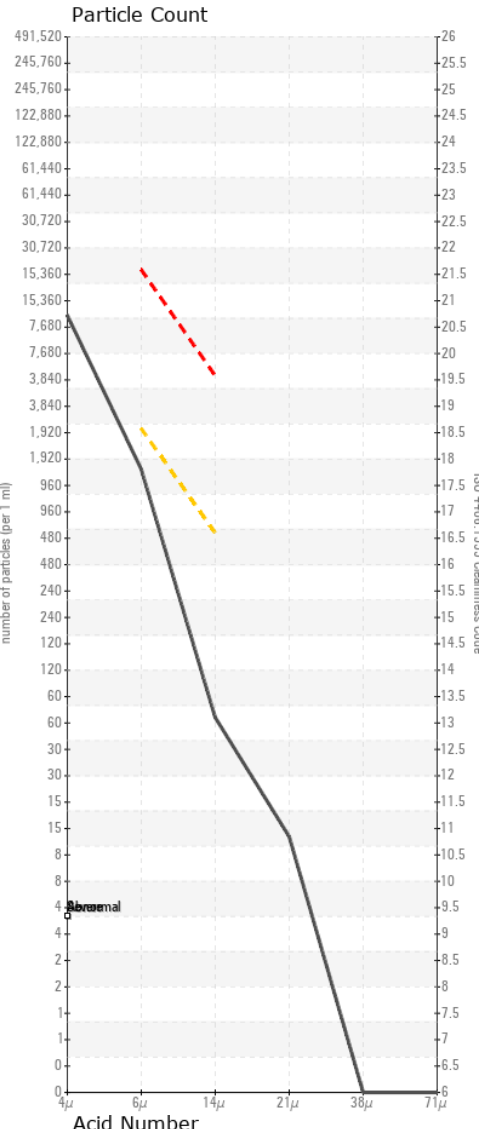
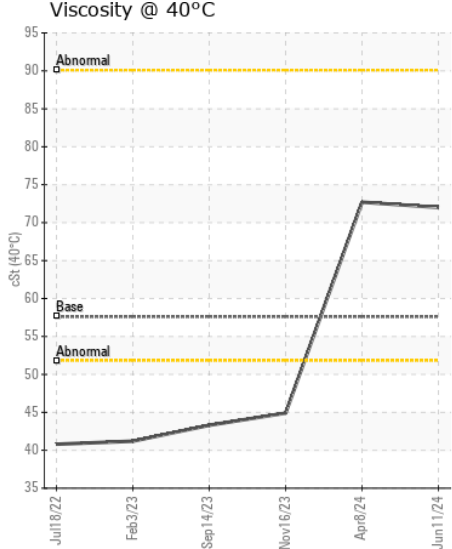
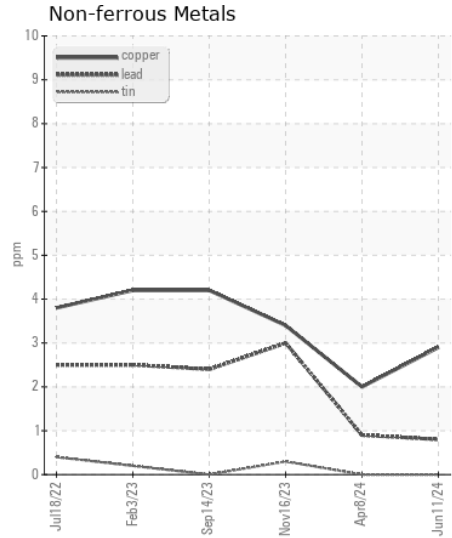
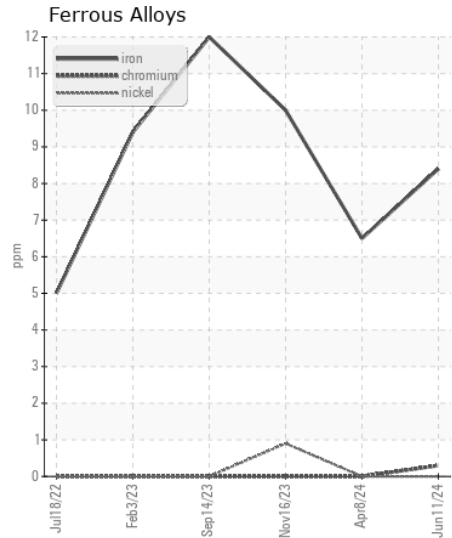
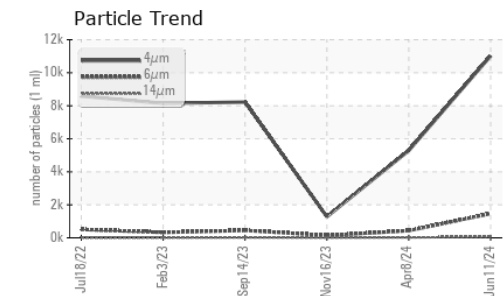
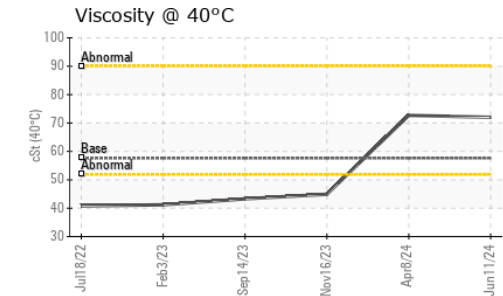
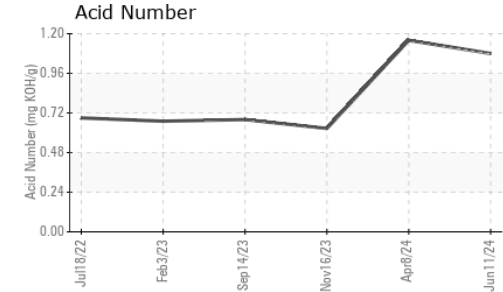
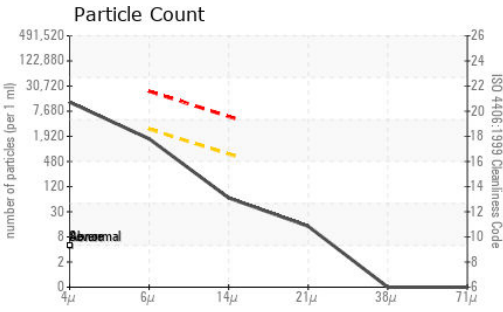
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>20	4	3	2
Potassium	ppm	ASTM D5185m	>20	2	7	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		11019	5287	1277
Particles >6µm		ASTM D7647	>2500	1467	434	146
Particles >14µm		ASTM D7647	>640	57	23	10
Particles >21µm		ASTM D7647	>160	12	5	3
Particles >38µm		ASTM D7647	>40	0	1	0
Particles >71µm		ASTM D7647	>10	0	1	0
Oil Cleanliness		ISO 4406 (c)	>-/18/16	21/18/13	20/16/12	17/14/10
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	3	2
Boron	ppm	ASTM D5185m		27	20	4
Barium	ppm	ASTM D5185m		2	<1	0
Molybdenum	ppm	ASTM D5185m		<1	<1	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		15	12	5
Calcium	ppm	ASTM D5185m		1918	1799	564
Phosphorus	ppm	ASTM D5185m		845	779	738
Zinc	ppm	ASTM D5185m		1064	893	923
Sulfur	ppm	ASTM D5185m		3308	3447	2122
Acid Number (AN)	mg KOH/g	ASTM D8045		1.08	1.16	0.626
Visc @ 40°C	cSt	ASTM D445	57.6	72.0	72.7	44.9



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0918269
Lab Number : 06214615
Unique Number : 11087479
Test Package : CONST
Received : 19 Jun 2024
Tested : 20 Jun 2024
Diagnosed : 20 Jun 2024 - Wes Davis

SHERWOOD CONSTRUCTION CO INC
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 WICHITA, KS
 US 67213
 Contact: RANDY ROBERTS
 randy.roberts@sherwood.net
 T:
 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)