



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
KANSAS/44
Machine Id
53.168L [KANSAS^44]
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		WC0918344	WC0918160	WC0821569
Sample Date		Client Info		09 Jul 2024	08 Apr 2024	08 Feb 2024
Machine Age	hrs	Client Info		2340	2010	1643
Oil Age	hrs	Client Info		2340	2010	1643
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	15	18	8
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
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	11	13	56
Tin	ppm	ASTM D5185m	>10	0	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

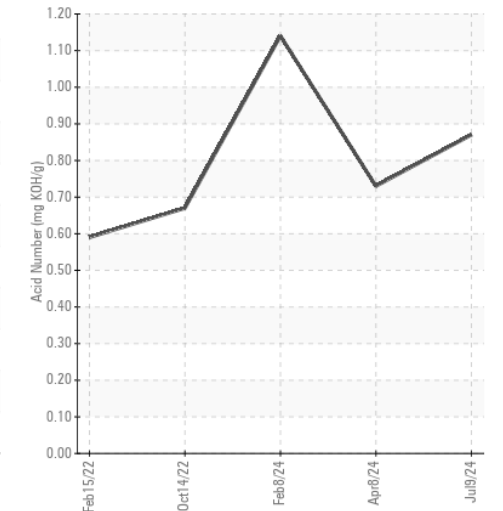
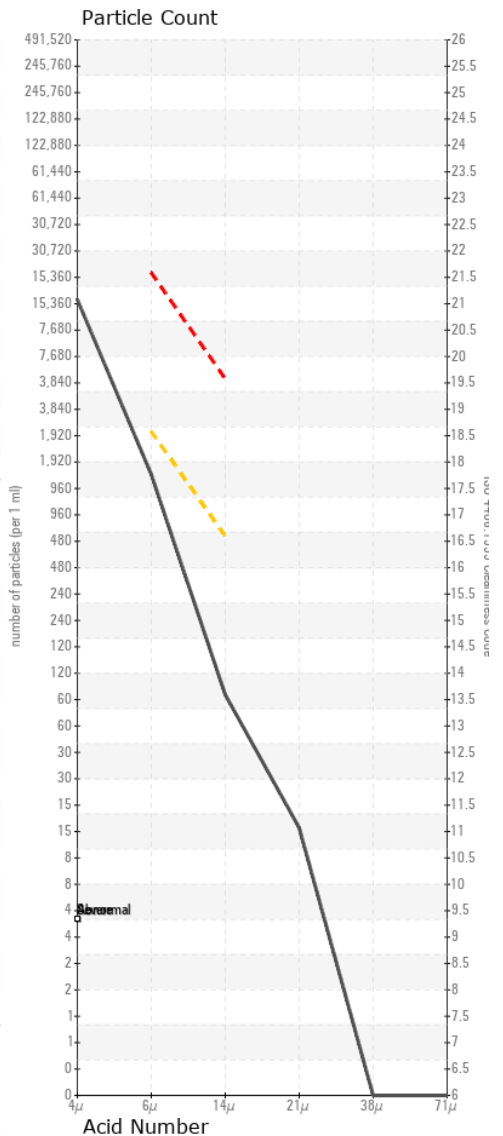
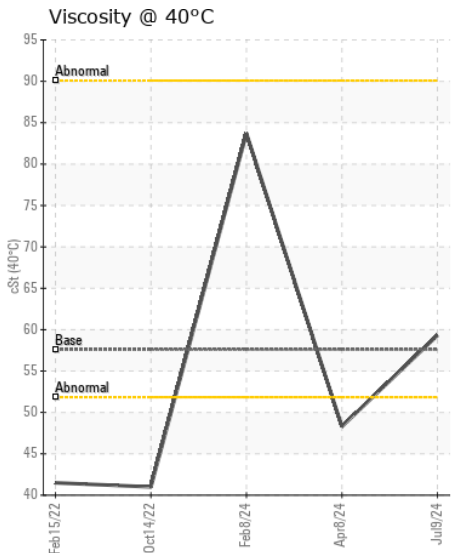
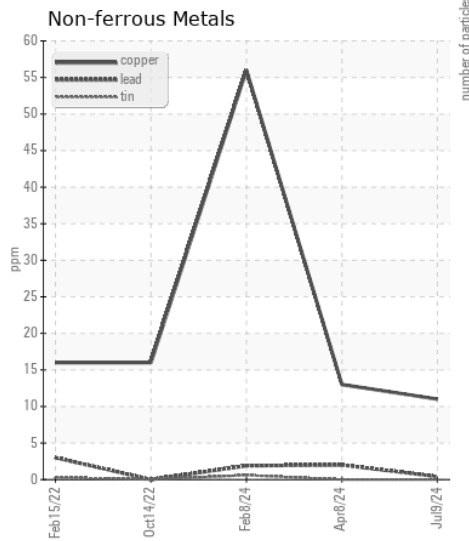
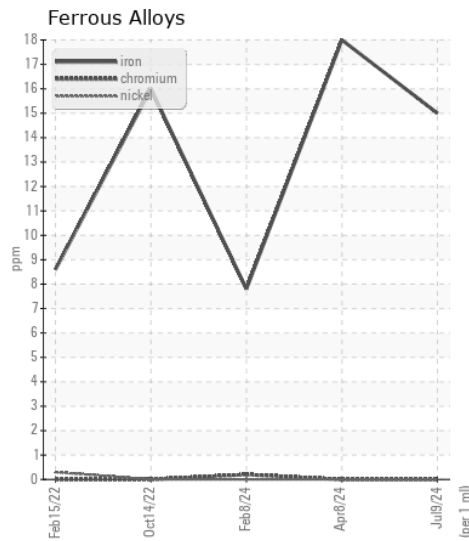
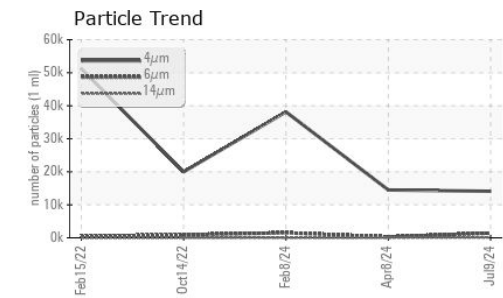
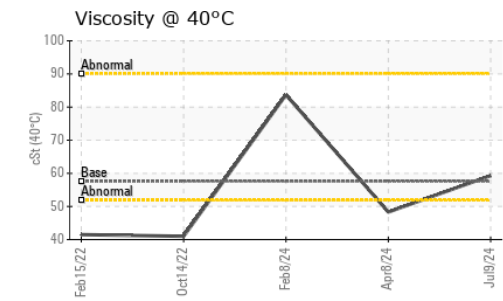
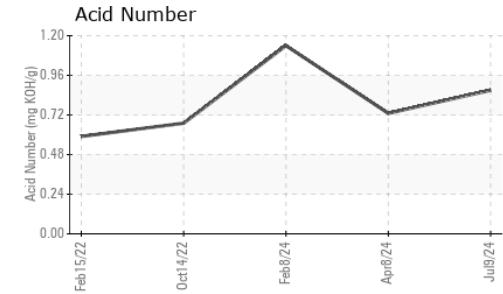
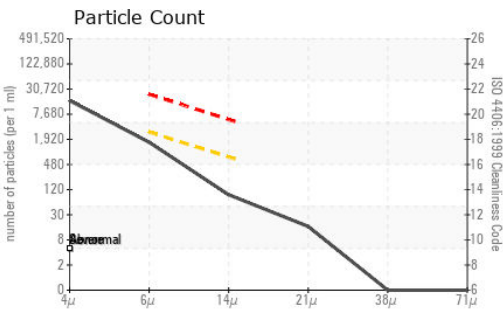
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>20	6	6	7
Potassium	ppm	ASTM D5185m	>20	<1	10	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		14103	14490	38147
Particles >6µm		ASTM D7647	>2500	1429	274	1517
Particles >14µm		ASTM D7647	>640	80	13	9
Particles >21µm		ASTM D7647	>160	14	4	1
Particles >38µm		ASTM D7647	>40	0	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>-/18/16	21/18/13	21/15/11	22/18/10
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		3	4	5
Boron	ppm	ASTM D5185m		12	8	31
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		1	1	7
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		15	8	109
Calcium	ppm	ASTM D5185m		1411	694	2418
Phosphorus	ppm	ASTM D5185m		828	653	890
Zinc	ppm	ASTM D5185m		928	736	1083
Sulfur	ppm	ASTM D5185m		3252	2281	4557
Acid Number (AN)	mg KOH/g	ASTM D8045		0.87	0.73	1.14
Visc @ 40°C	cSt	ASTM D445	57.6	59.3	48.3	83.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0918344

Lab Number : 06236757

Unique Number : 11125591

Test Package : CONST

Received : 15 Jul 2024

Tested : 16 Jul 2024

Diagnosed : 17 Jul 2024 - Don Baldrige

SHERWOOD CONSTRUCTION CO INC

3219 WEST MAY ST

WICHITA, KS

US 67213

Contact: RANDY ROBERTS

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T:

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)