

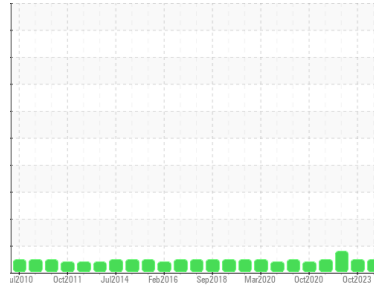


OIL ANALYSIS REPORT



Area
KANSAS/44/EG - LOADER
 Machine Id
46.68L [KANSAS^44^EG - LOADER]
 Component
Hydraulic System
 Fluid
MOBIL MOBILTRANS AST 30 (--- GAL)

Sample Rating Trend



NORMAL



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0862525	WC0821604	WC0821600
Sample Date	Client Info		09 Apr 2024	18 Oct 2023	03 Oct 2023
Machine Age	hrs	Client Info	10892	10593	10573
Oil Age	hrs	Client Info	2151	8741	8741
Oil Changed	Client Info		Not Chngd	N/A	N/A
Sample Status			NORMAL	NORMAL	ATTENTION

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	4	4	1
Chromium	ppm	ASTM D5185m >10	0	<1	0
Nickel	ppm	ASTM D5185m >10	0	0	0
Titanium	ppm	ASTM D5185m	0	<1	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >10	2	1	2
Lead	ppm	ASTM D5185m >10	<1	<1	0
Copper	ppm	ASTM D5185m >75	2	2	2
Tin	ppm	ASTM D5185m >10	0	0	<1
Antimony	ppm	ASTM D5185m	---	---	---
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	0	<1	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	17	21	13
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0
Manganese	ppm	ASTM D5185m	0	0	<1
Magnesium	ppm	ASTM D5185m	11	14	13
Calcium	ppm	ASTM D5185m	2360	2606	2582
Phosphorus	ppm	ASTM D5185m	833	995	937
Zinc	ppm	ASTM D5185m	972	1184	1118
Sulfur	ppm	ASTM D5185m	4061	4485	3812

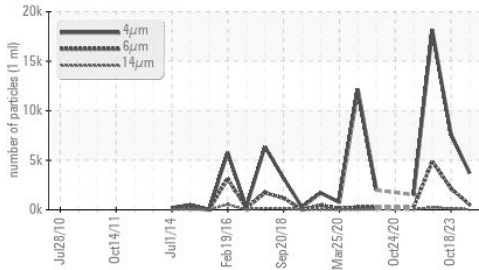
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	7	7	7
Sodium	ppm	ASTM D5185m	5	0	1
Potassium	ppm	ASTM D5185m >20	7	3	0

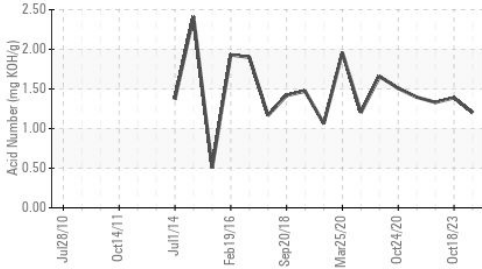
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		3705	7653	18145
Particles >6µm	ASTM D7647	>2500	528	2160	4870
Particles >14µm	ASTM D7647	>640	46	120	243
Particles >21µm	ASTM D7647	>160	13	30	36
Particles >38µm	ASTM D7647	>40	1	1	0
Particles >71µm	ASTM D7647	>10	0	0	0
Oil Cleanliness	ISO 4406 (c)	>--/18/16	19/16/13	20/18/14	21/19/15

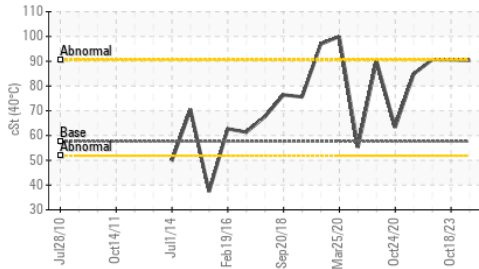
Particle Trend



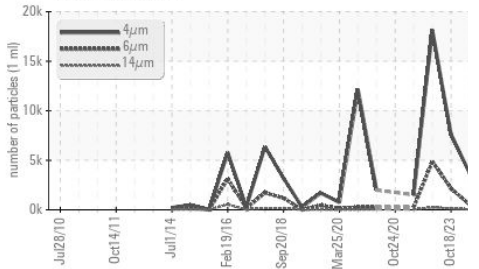
Acid Number



Viscosity @ 40°C



Particle Trend



FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045	1.20	1.39	1.33

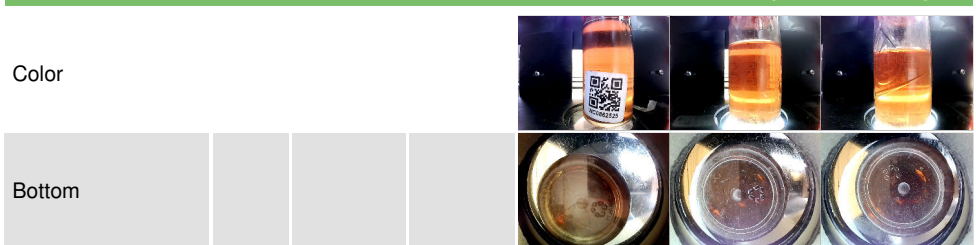
VISUAL

method	limit/base	current	history1	history2
White Metal	*Visual	NONE	NONE	NONE
Yellow Metal	*Visual	NONE	NONE	NONE
Precipitate	*Visual	NONE	NONE	NONE
Silt	*Visual	NONE	NONE	NONE
Debris	*Visual	NONE	NONE	NONE
Sand/Dirt	*Visual	NONE	NONE	NONE
Appearance	*Visual	NORML	NORML	NORML
Odor	*Visual	NORML	NORML	NORML
Emulsified Water	*Visual	NEG	NEG	NEG
Free Water	*Visual	NEG	NEG	NEG

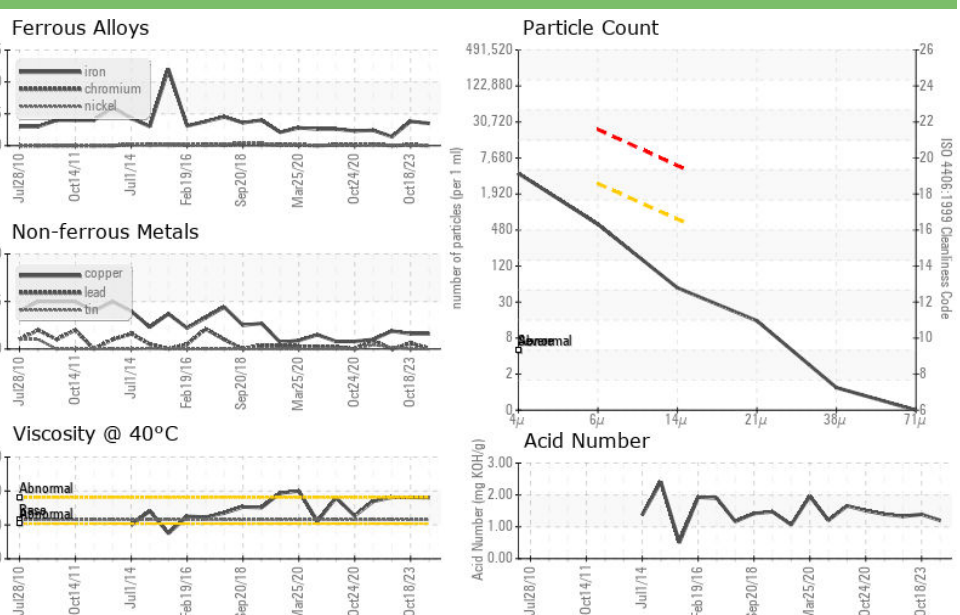
FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C cSt	ASTM D445	90.3	90.6	90.7

SAMPLE IMAGES



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0862525
Lab Number : 06151924
Unique Number : 10982002
Test Package : CONST

SHERWOOD CONSTRUCTION CO INC
 3219 WEST MAY ST
 WICHITA, KS
 US 67213
 Contact: JIMMY DERAMUS
 jimmy.deramus@sherwood.net
 T: (918)691-3306
 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)