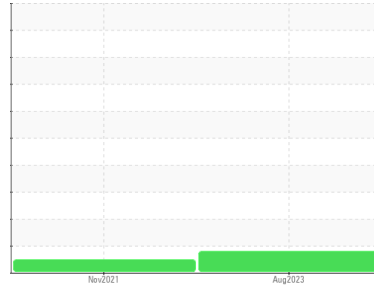




PROBLEM SUMMARY

Sample Rating Trend

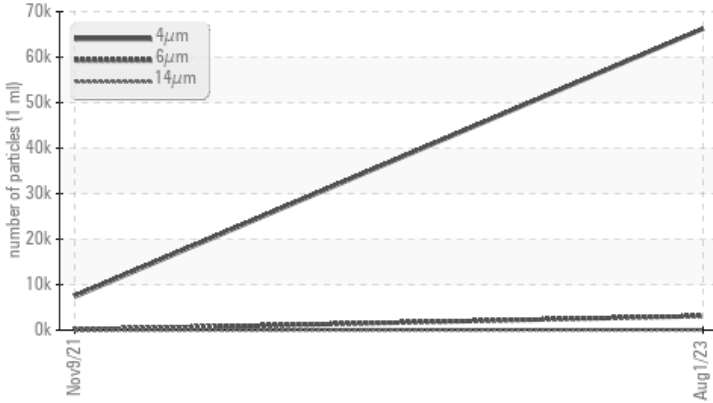
ISO



Area
OKLAHOMA/105/COOL - Loader
 Machine Id
46.102L [OKLAHOMA^105^COOL - Loader]
 Component
Hydraulic System
 Fluid
MOBIL DELVAC 1300 SUPER15W40 (11 GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ATTENTION	NORMAL	---
Particles >6µm	ASTM D7647	>2500	▲ 3103	112	---
Oil Cleanliness	ISO 4406 (c)	>--/18/16	▲ 23/19/13	20/14/10	---

Customer Id: SHEWIC
 Sample No.: WC0834152
 Lab Number: 05923299
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

09 Nov 2021 Diag: Doug Bogart

NORMAL



Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

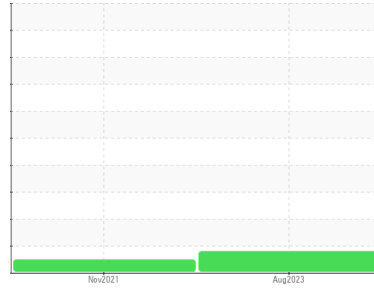
view report





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
OKLAHOMA/105/COOL - Loader
 Machine Id
46.102L [OKLAHOMA^105^COOL - Loader]
 Component
Hydraulic System
 Fluid
MOBIL DELVAC 1300 SUPER15W40 (11 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

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		WC0834152	WC0623097	---
Sample Date	Client Info		01 Aug 2023	09 Nov 2021	---
Machine Age	hrs	Client Info	13113	10768	---
Oil Age	hrs	Client Info	2345	2000	---
Oil Changed	Client Info		N/A	Changed	---
Sample Status			ATTENTION	NORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	13	33	---
Chromium	ppm	ASTM D5185m >10	<1	1	---
Nickel	ppm	ASTM D5185m >10	0	0	---
Titanium	ppm	ASTM D5185m	<1	<1	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >10	2	<1	---
Lead	ppm	ASTM D5185m >10	0	<1	---
Copper	ppm	ASTM D5185m >75	9	10	---
Tin	ppm	ASTM D5185m >10	1	<1	---
Antimony	ppm	ASTM D5185m	---	0	---
Vanadium	ppm	ASTM D5185m	<1	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	99	12	---
Barium	ppm	ASTM D5185m 0	<1	0	---
Molybdenum	ppm	ASTM D5185m 0	1	<1	---
Manganese	ppm	ASTM D5185m	<1	<1	---
Magnesium	ppm	ASTM D5185m 0	25	6	---
Calcium	ppm	ASTM D5185m	2970	939	---
Phosphorus	ppm	ASTM D5185m	962	434	---
Zinc	ppm	ASTM D5185m	1202	555	---
Sulfur	ppm	ASTM D5185m	4707	3934	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	11	6	---
Sodium	ppm	ASTM D5185m	5	0	---
Potassium	ppm	ASTM D5185m >20	<1	<1	---

FLUID CLEANLINESS

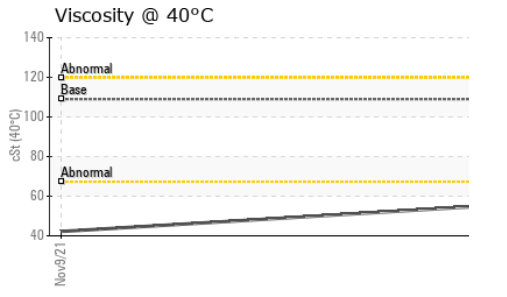
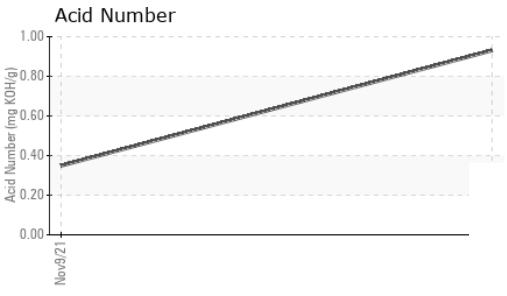
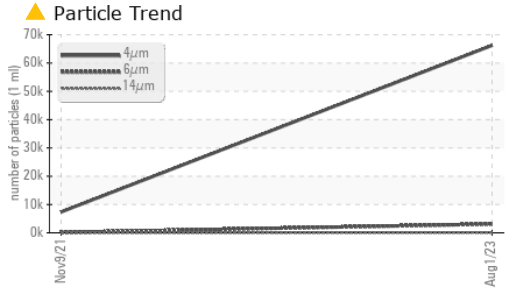
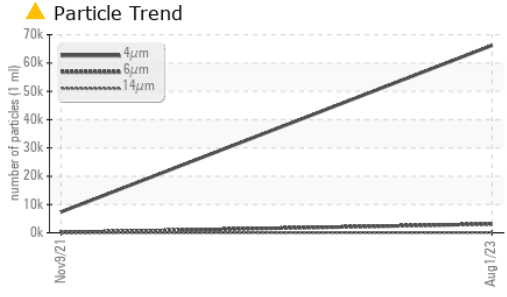
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		66240	7369	---
Particles >6µm	ASTM D7647	>2500	▲ 3103	112	---
Particles >14µm	ASTM D7647	>640	63	6	---
Particles >21µm	ASTM D7647	>160	21	2	---
Particles >38µm	ASTM D7647	>40	1	0	---
Particles >71µm	ASTM D7647	>10	0	0	---
Oil Cleanliness	ISO 4406 (c)	>--/18/16	▲ 23/19/13	20/14/10	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.93	0.348	---



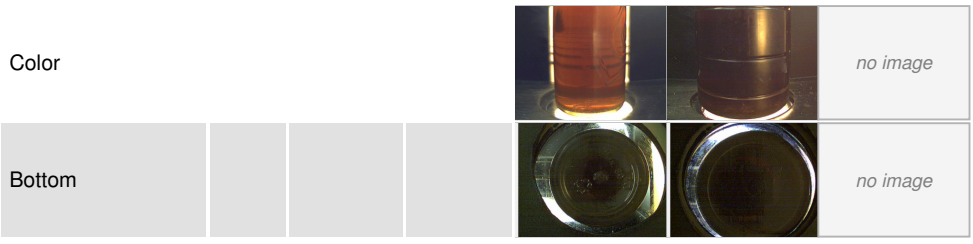
OIL ANALYSIS REPORT



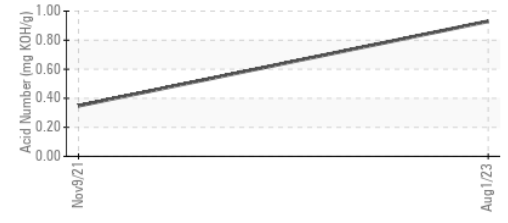
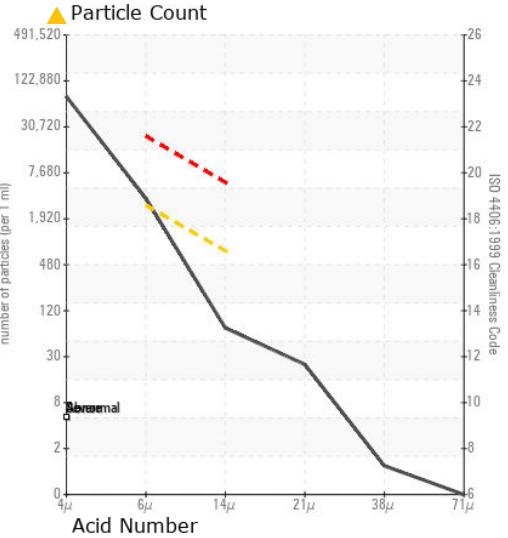
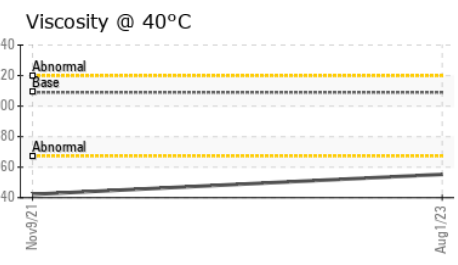
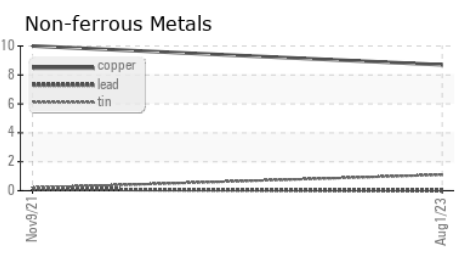
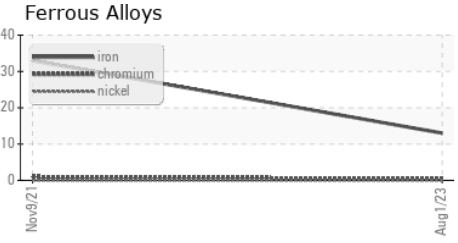
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 109	55.3	42.2	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0834152 **Received** : 14 Aug 2023
Lab Number : 05923299 **Diagnosed** : 15 Aug 2023
Unique Number : 10603246 **Diagnostician** : Don Baldrige
Test Package : CONST

SHERWOOD CONSTRUCTION CO INC
 3219 WEST MAY ST
 WICHITA, KS
 US 67213
 Contact: DOUG KING
 doug.king@sherwood.net
 T: (316)617-3161
 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)