

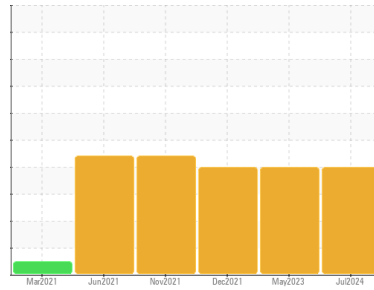


PROBLEM SUMMARY



Area
OKLAHOMA/102/EG - LOADER
 Machine Id
45.53L [OKLAHOMA^102^EG - LOADER]
 Component
Front Differential
 Fluid
MOBIL MOBILFLUID 424 (9 GAL)

Sample Rating Trend

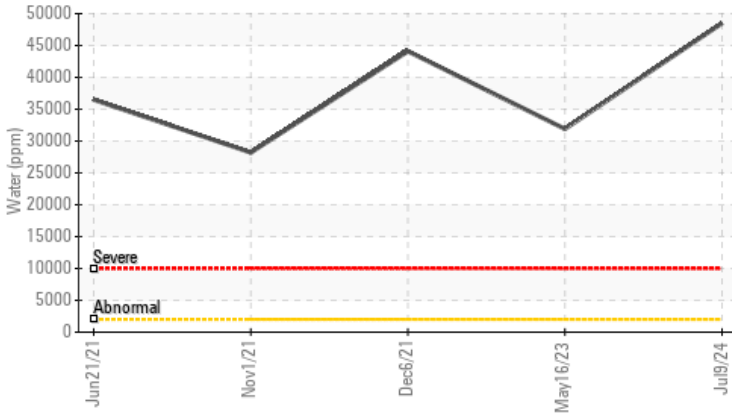


WATER



COMPONENT CONDITION SUMMARY

▲ Water (KF)



RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	SEVERE
Water	%	ASTM D6304	>.2	▲ 4.85	▲ 3.19	▲ 4.41
ppm Water	ppm	ASTM D6304	>2000	▲ 48500	▲ 31900	▲ 44100
Emulsified Water	scalar	*Visual	>.2	▲ 0.2%	▲ 0.2%	▲ 0.2%

Customer Id: SHEWIC
 Sample No.: WC0945636
 Lab Number: 06237110
 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

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

WATER



16 May 2023 Diag: Jonathan Hester

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

view report



WATER



06 Dec 2021 Diag: Don Baldrige

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

view report



WATER



01 Nov 2021 Diag: Jonathan Hester

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

view report



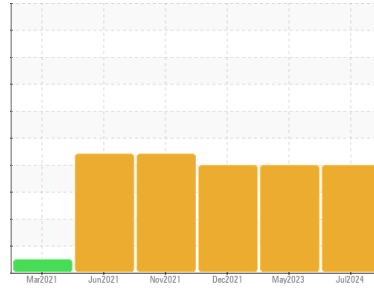


OIL ANALYSIS REPORT



Area
OKLAHOMA/102/EG - LOADER
 Machine Id
45.53L [OKLAHOMA^102^EG - LOADER]
 Component
Front Differential
 Fluid
MOBIL MOBILFLUID 424 (9 GAL)

Sample Rating Trend



WATER



DIAGNOSIS

▲ Recommendation

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

▲ Contamination

There is a high concentration of water present in the oil.

Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0945636	WC0800893	WC0634195
Sample Date	Client Info		09 Jul 2024	16 May 2023	06 Dec 2021
Machine Age	hrs	Client Info	5040	3672	2065
Oil Age	hrs	Client Info	1368	1607	151
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			SEVERE	SEVERE	SEVERE

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	146	90	81
Chromium	ppm	ASTM D5185m >3	1	1	1
Nickel	ppm	ASTM D5185m >3	2	4	3
Titanium	ppm	ASTM D5185m >2	0	<1	<1
Silver	ppm	ASTM D5185m >2	0	0	<1
Aluminum	ppm	ASTM D5185m >30	5	<1	1
Lead	ppm	ASTM D5185m >13	0	0	1
Copper	ppm	ASTM D5185m >103	1	2	4
Tin	ppm	ASTM D5185m >5	0	0	3
Antimony	ppm	ASTM D5185m >5	---	---	<1
Vanadium	ppm	ASTM D5185m	<1	<1	0
Cadmium	ppm	ASTM D5185m	0	<1	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	70	138	104
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	4	9	6
Manganese	ppm	ASTM D5185m	<1	1	2
Magnesium	ppm	ASTM D5185m	15	21	14
Calcium	ppm	ASTM D5185m	3015	3427	2704
Phosphorus	ppm	ASTM D5185m	618	1210	1114
Zinc	ppm	ASTM D5185m	1179	1540	1334
Sulfur	ppm	ASTM D5185m	3252	5827	4108

CONTAMINANTS

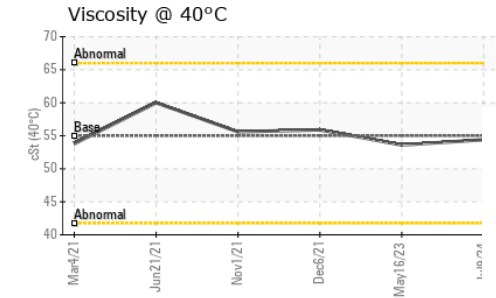
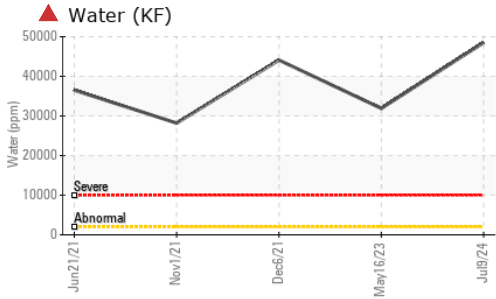
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >100	11	21	16
Sodium	ppm	ASTM D5185m	13	3	3
Potassium	ppm	ASTM D5185m >20	2	<1	0
Water	%	ASTM D6304 >.2	▲ 4.85	▲ 3.19	▲ 4.41
ppm Water	ppm	ASTM D6304 >2000	▲ 48500	▲ 31900	▲ 44100

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual NONE	NONE	NONE	NONE
Silt	scalar	*Visual NONE	MODER	NONE	NONE
Debris	scalar	*Visual NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual NONE	NONE	NONE	NONE
Appearance	scalar	*Visual NORML	● MILKY	● MILKY	● MILKY
Odor	scalar	*Visual NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual >.2	▲ 0.2%	▲ 0.2%	▲ 0.2%
Free Water	scalar	*Visual	NEG	NEG	NEG



OIL ANALYSIS REPORT

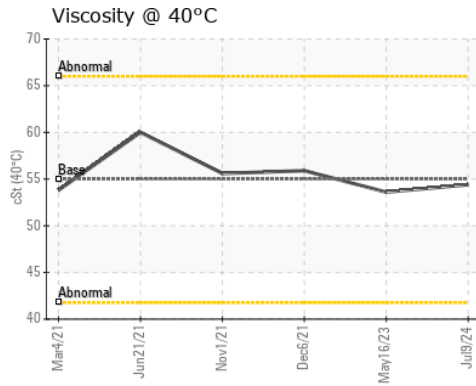
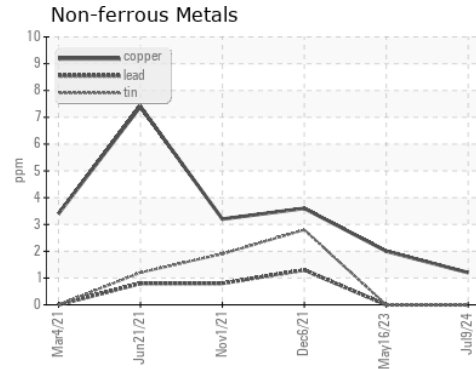
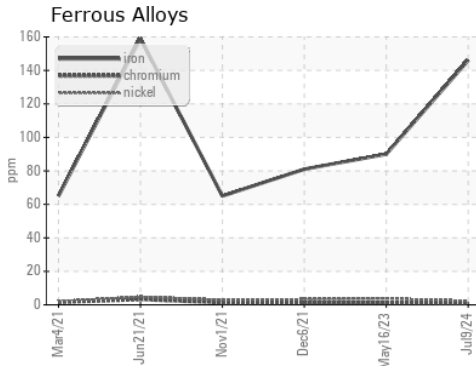


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 55	54.4	53.6	55.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color					no image
Bottom					no image

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0945636 **Received** : 15 Jul 2024
Lab Number : **06237110** **Tested** : 17 Jul 2024
Unique Number : 11125944 **Diagnosed** : 17 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF)

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:

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)