

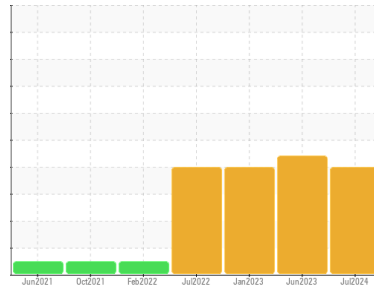


PROBLEM SUMMARY



Area
COLORADO/443/EG - LOADER
 Machine Id
45.52L [COLORADO^443^EG - LOADER]
 Component
Front Differential
 Fluid
MOBIL MOBILFLUID 424 (9 GAL)

Sample Rating Trend

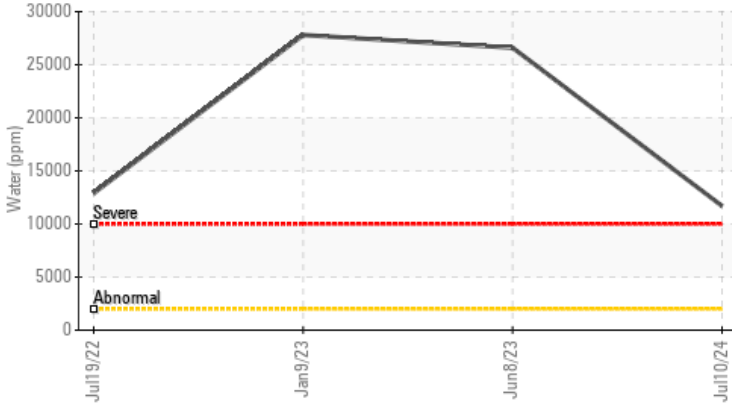


WATER



COMPONENT CONDITION SUMMARY

▲ Water (KF)



RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	SEVERE
Water	%	ASTM D6304	>.2	▲ 1.17	▲ 2.66	▲ 2.78
ppm Water	ppm	ASTM D6304	>2000	▲ 11700	▲ 26600	▲ 27800
Emulsified Water	scalar	*Visual	>.2	▲ 0.2%	▲ 0.2%	NEG

Customer Id: SHEWIC
 Sample No.: WC0928640
 Lab Number: 06237109
 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
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
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



08 Jun 2023 Diag: Don Baldrige

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. All component wear rates are normal. Appearance is milky. There is a high concentration of water present in the oil. The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

view report



WATER



09 Jan 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. Please note that this is a corrected copy for laboratory data updates. All component wear rates are normal. Appearance is milky. 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



19 Jul 2022 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



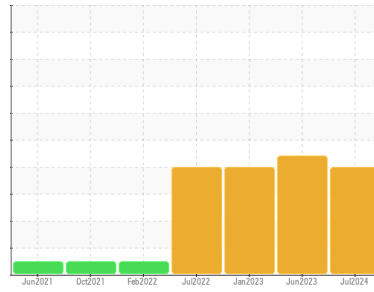


OIL ANALYSIS REPORT



Area
COLORADO/443/EG - LOADER
 Machine Id
45.52L [COLORADO^443^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. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

▲ Contamination

Appearance is milky. 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		WC0928640	WC0823239	WC0766090
Sample Date	Client Info		10 Jul 2024	08 Jun 2023	09 Jan 2023
Machine Age	hrs	Client Info	4497	3532	2977
Oil Age	hrs	Client Info	3143	555	0
Oil Changed	Client Info		Not Chngd	Not Chngd	Changed
Sample Status			SEVERE	SEVERE	SEVERE

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	122	130	83
Chromium	ppm	ASTM D5185m >3	<1	2	1
Nickel	ppm	ASTM D5185m >3	0	3	3
Titanium	ppm	ASTM D5185m >2	0	<1	<1
Silver	ppm	ASTM D5185m >2	0	<1	0
Aluminum	ppm	ASTM D5185m >30	3	3	1
Lead	ppm	ASTM D5185m >13	0	<1	2
Copper	ppm	ASTM D5185m >103	8	5	3
Tin	ppm	ASTM D5185m >5	0	2	2
Vanadium	ppm	ASTM D5185m	0	<1	0
Cadmium	ppm	ASTM D5185m	0	<1	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	323	41	118
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	4	7
Manganese	ppm	ASTM D5185m	2	2	1
Magnesium	ppm	ASTM D5185m	632	13	37
Calcium	ppm	ASTM D5185m	7	2772	3531
Phosphorus	ppm	ASTM D5185m	1380	985	1129
Zinc	ppm	ASTM D5185m	19	1303	1475
Sulfur	ppm	ASTM D5185m	16663	5209	4958

CONTAMINANTS

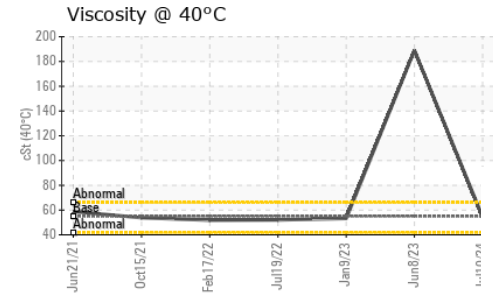
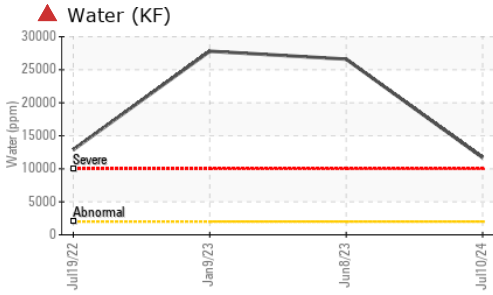
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >100	4	23	14
Sodium	ppm	ASTM D5185m	8	1	4
Potassium	ppm	ASTM D5185m >20	11	2	1
Water	%	ASTM D6304 >.2	▲ 1.17	▲ 2.66	▲ 2.78
ppm Water	ppm	ASTM D6304 >2000	▲ 11700	▲ 26600	▲ 27800

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%	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG



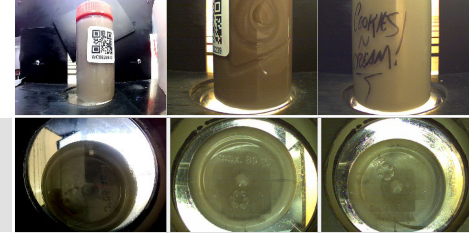
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 55	54.4	189	53.2

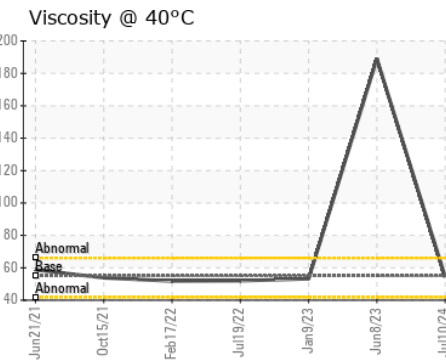
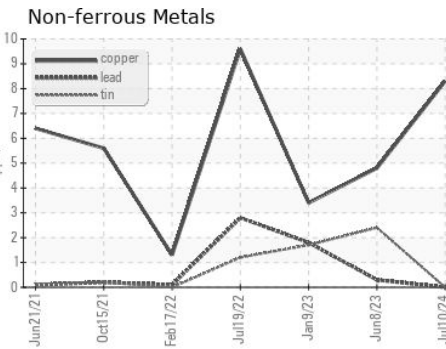
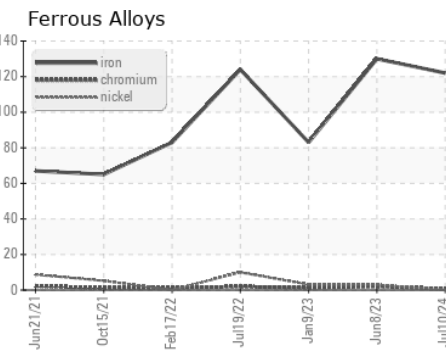
SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color



Bottom

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0928640 **Received** : 15 Jul 2024
Lab Number : 06237109 **Tested** : 17 Jul 2024
Unique Number : 11125943 **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)