

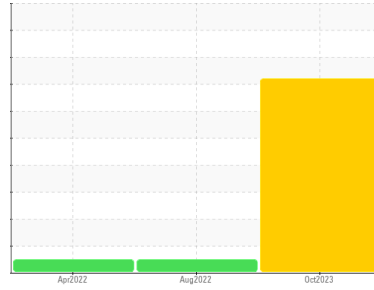


PROBLEM SUMMARY



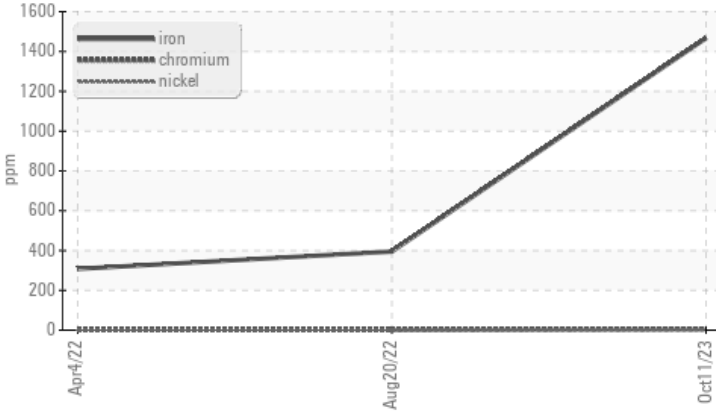
Area
OKLAHOMA/102
 Machine Id
46.101L [OKLAHOMA^102]
 Component
Rear Differential
 Fluid
MOBIL MOBILTRANS AST 30 (10 GAL)

Sample Rating Trend

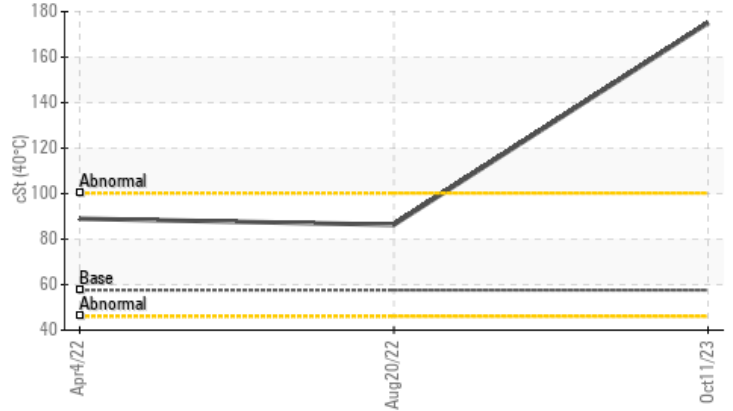


COMPONENT CONDITION SUMMARY

Ferrous Alloys



Viscosity @ 40°C



RECOMMENDATION

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. (Customer Sample Comment: 2040 hrs)

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>500	1467	395	308
Chromium	ppm	ASTM D5185m	>3	5	1	2
Visc @ 40°C	cSt	ASTM D445	57.6	175	86.3	89.0

Customer Id: SHEWIC
 Sample No.: WC0819822
 Lab Number: 05980732
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Sean Felton +1 919-379-4092
sfelton@wearcheckusa.com

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

20 Aug 2022 Diag: Don Baldrige

NORMAL



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 condition of the oil is acceptable for the time in service.

[view report](#)



04 Apr 2022 Diag: Don Baldrige

NORMAL



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 condition of the oil is acceptable for the time in service.

[view report](#)





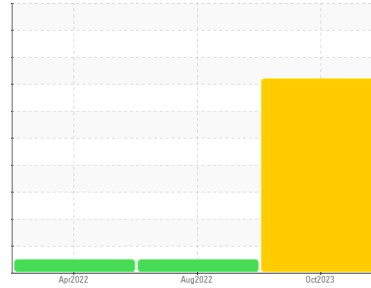
OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Area
OKLAHOMA/102
Machine Id
46.101L [OKLAHOMA^102]
Component
Rear Differential
Fluid
MOBIL MOBILTRANS AST 30 (10 GAL)



DIAGNOSIS

Recommendation

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. (Customer Sample Comment: 2040 hrs)

Wear

Gear wear is indicated.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The oil viscosity is higher than normal. Confirm oil type. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0819822	WC0713239	WC0670323
Sample Date	Client Info		11 Oct 2023	20 Aug 2022	04 Apr 2022
Machine Age	hrs	Client Info	2040	1214	689
Oil Age	hrs	Client Info	655	1214	689
Oil Changed	Client Info		N/A	Changed	Not Chngd
Sample Status			SEVERE	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	1467	395	308
Chromium	ppm	ASTM D5185m >3	5	1	2
Nickel	ppm	ASTM D5185m >3	1	0	0
Titanium	ppm	ASTM D5185m >2	16	<1	1
Silver	ppm	ASTM D5185m >2	0	<1	<1
Aluminum	ppm	ASTM D5185m >30	10	6	7
Lead	ppm	ASTM D5185m >13	<1	1	2
Copper	ppm	ASTM D5185m >103	17	84	92
Tin	ppm	ASTM D5185m >5	0	<1	<1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	1	0
Barium	ppm	ASTM D5185m	0	0	1
Molybdenum	ppm	ASTM D5185m	12	2	5
Manganese	ppm	ASTM D5185m	16	7	8
Magnesium	ppm	ASTM D5185m	36	9	13
Calcium	ppm	ASTM D5185m	3014	2933	3145
Phosphorus	ppm	ASTM D5185m	1040	1092	1083
Zinc	ppm	ASTM D5185m	1291	1302	1311
Sulfur	ppm	ASTM D5185m	7999	4548	3934

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >100	49	11	12
Sodium	ppm	ASTM D5185m	7	2	3
Potassium	ppm	ASTM D5185m >20	5	1	0

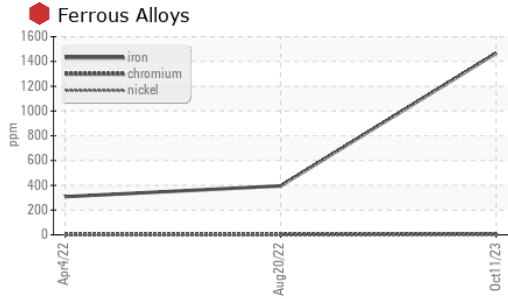
VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	MODER	MODER
Yellow Metal	scalar	*Visual NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual NONE	NONE	NONE	NONE
Silt	scalar	*Visual NONE	NONE	NONE	NONE
Debris	scalar	*Visual NONE	NONE	NONE	VLITE
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 >.2	NEG	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG

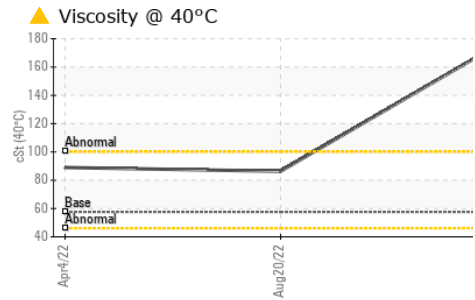
FLUID PROPERTIES

	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 57.6	175	86.3	89.0

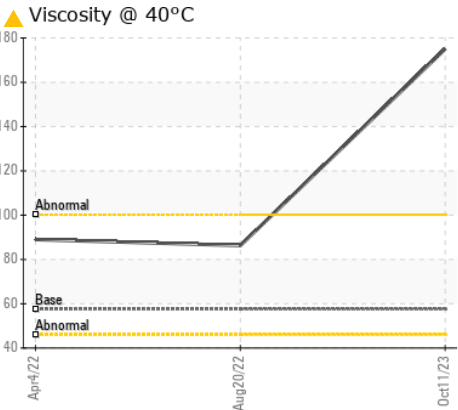
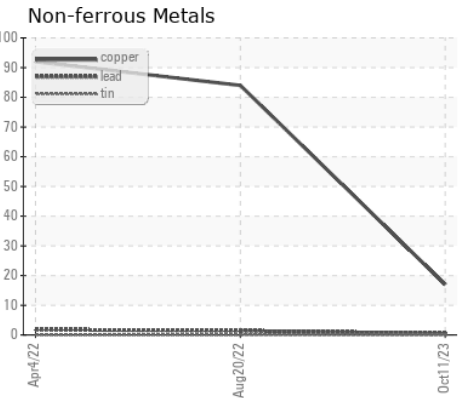
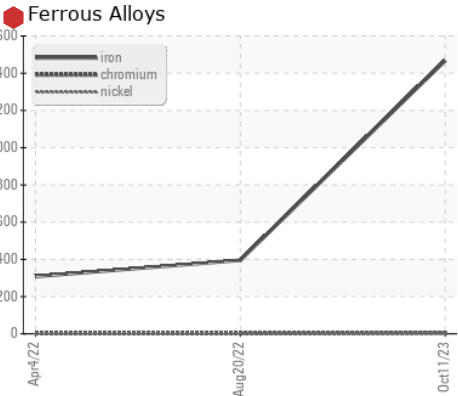
OIL ANALYSIS REPORT



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



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0819822 **Received** : 16 Oct 2023
Lab Number : **05980732** **Diagnosed** : 18 Oct 2023
Unique Number : 10698027 **Diagnostician** : Sean Felton
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:

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)