

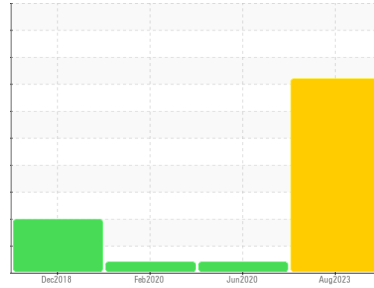


PROBLEM SUMMARY



Area
KANSAS/44/EG - OTHER SERVICE
 Machine Id
53.125L [KANSAS^44^EG - OTHER SERVICE]
 Component
Right Final Drive
 Fluid
MOBIL MOBILUBE HD 85W140 (--- GAL)

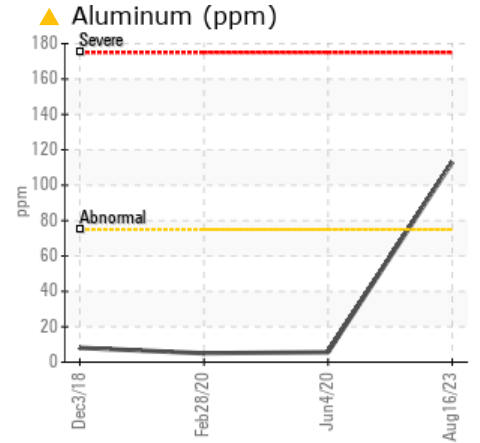
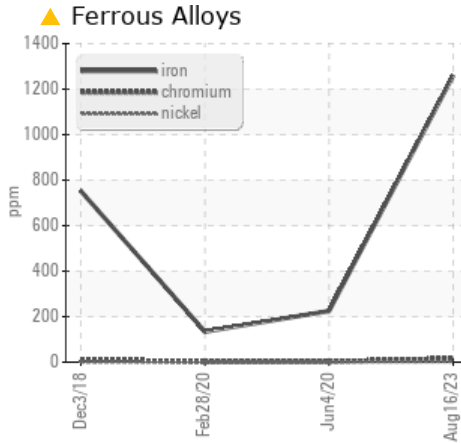
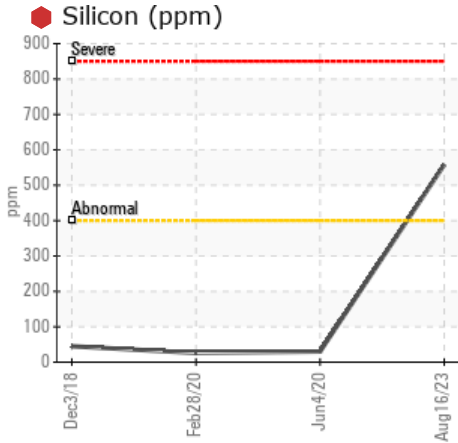
Sample Rating Trend



DIRT



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where dirt can enter the system. 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	ATTENTION	ATTENTION
Iron	ppm	ASTM D5185m	>800	▲ 1260	225	134
Chromium	ppm	ASTM D5185m	>10	▲ 16	3	2
Aluminum	ppm	ASTM D5185m	>75	▲ 113	6	5
Silicon	ppm	ASTM D5185m	>400	● 558	30	26

Customer Id: SHEWIC
 Sample No.: WC0821639
 Lab Number: 05931771
 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 Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

04 Jun 2020 Diag: Don Baldrige

VISCOSITY



The oil 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 oil viscosity is lower than normal.

[view report](#)



28 Feb 2020 Diag: Don Baldrige

VISCOSITY



The oil 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 oil viscosity is lower than normal.

[view report](#)



03 Dec 2018 Diag: Don Baldrige

VISUAL METAL



The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Moderate concentration of visible metal present. Gear wear is indicated. There is no indication of any contamination in the oil. Confirm oil type. The condition of the oil is acceptable for the time in service.

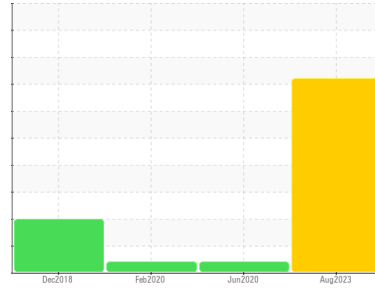
[view report](#)





OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Area
KANSAS/44/EG - OTHER SERVICE
Machine Id
53.125L [KANSAS^44^EG - OTHER SERVICE]
Component
Right Final Drive
Fluid
MOBIL MOBILUBE HD 85W140 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

Gear wear is indicated.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0821639	WC0453642	WC0398769
Sample Date	Client Info		16 Aug 2023	04 Jun 2020	28 Feb 2020
Machine Age	hrs	Client Info	4371	3008	2767
Oil Age	hrs	Client Info	1363	0	0
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			SEVERE	ATTENTION	ATTENTION

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >800	▲ 1260	225	134
Chromium	ppm	ASTM D5185m >10	▲ 16	3	2
Nickel	ppm	ASTM D5185m >5	2	<1	<1
Titanium	ppm	ASTM D5185m >15	7	<1	<1
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >75	▲ 113	6	5
Lead	ppm	ASTM D5185m >10	<1	<1	0
Copper	ppm	ASTM D5185m >75	2	<1	<1
Tin	ppm	ASTM D5185m >8	0	0	0
Antimony	ppm	ASTM D5185m >50	---	0	0
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	248	202	207
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	2	0	0
Manganese	ppm	ASTM D5185m	11	2	1
Magnesium	ppm	ASTM D5185m	27	24	15
Calcium	ppm	ASTM D5185m	256	239	539
Phosphorus	ppm	ASTM D5185m	1101	1380	1232
Zinc	ppm	ASTM D5185m	54	84	247
Sulfur	ppm	ASTM D5185m	31086	19512	18324

CONTAMINANTS

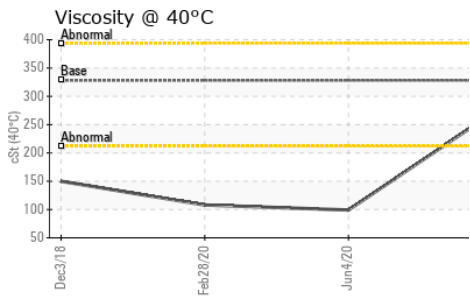
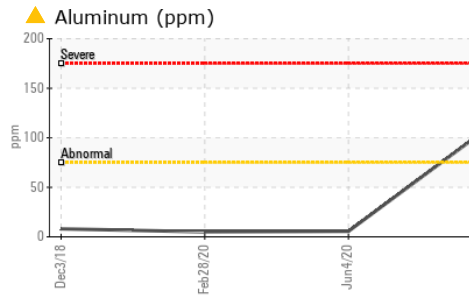
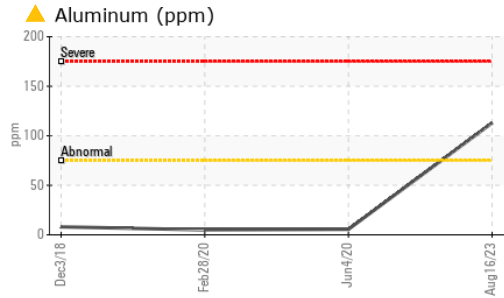
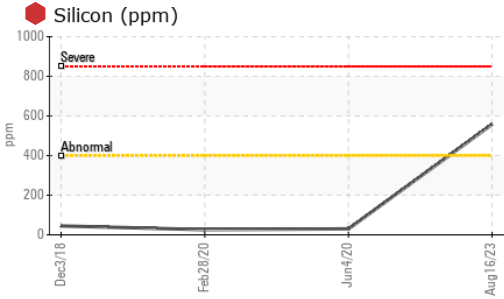
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >400	● 558	30	26
Sodium	ppm	ASTM D5185m	15	3	2
Potassium	ppm	ASTM D5185m >20	40	1	2

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	LIGHT	NONE
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	NONE
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 >0.2	NEG	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG



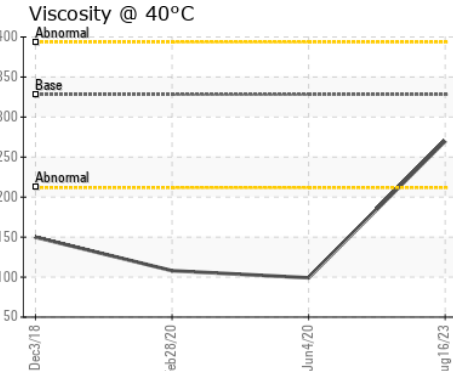
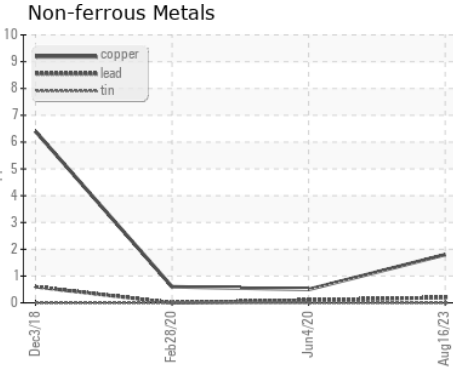
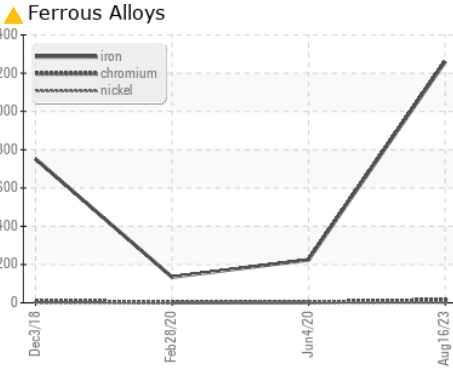
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 328	270	▲ 99.1	▲ 108

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0821639 **Received** : 22 Aug 2023
Lab Number : 05931771 **Diagnosed** : 24 Aug 2023
Unique Number : 10617042 **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:

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)