

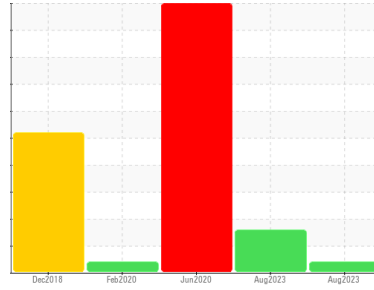


PROBLEM SUMMARY



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

Sample Rating Trend

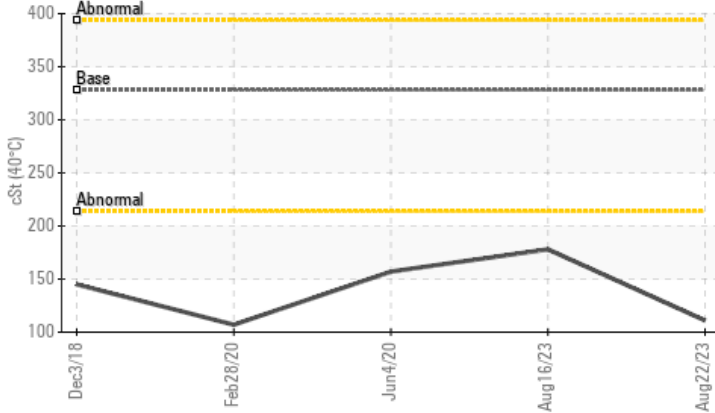


VISCOSITY



COMPONENT CONDITION SUMMARY

▲ Viscosity @ 40°C



RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	ABNORMAL	SEVERE
Visc @ 40°C	cSt	ASTM D445	328	▲ 111	178	157

Customer Id: SHEWIC
 Sample No.: WC0821621
 Lab Number: 05936441
 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

16 Aug 2023 Diag: Don Baldrige

WEAR



The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. 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 Jun 2020 Diag: Don Baldrige

WEAR



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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron and chrome levels are severe. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

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



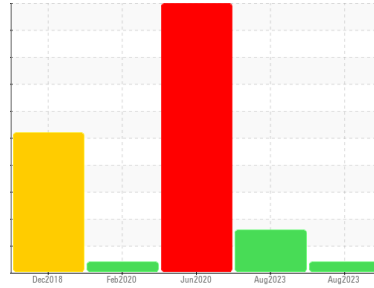


OIL ANALYSIS REPORT



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

Sample Rating Trend



VISCOSITY



DIAGNOSIS

▲ Recommendation

The oil 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 no indication of any contamination in the oil.

▲ Fluid Condition

The oil viscosity is lower than normal.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0821621	WC0821637	WC0453641
Sample Date	Client Info	22 Aug 2023	16 Aug 2023	04 Jun 2020
Machine Age	hrs	4389	4371	3008
Oil Age	hrs	18	1363	0
Oil Changed	Client Info	Changed	Changed	Changed
Sample Status		ATTENTION	ABNORMAL	SEVERE

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >800	421	▲ 1371	● 5966
Chromium	ppm	ASTM D5185m >10	6	▲ 16	● 76
Nickel	ppm	ASTM D5185m >5	<1	2	6
Titanium	ppm	ASTM D5185m >15	<1	2	12
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >75	12	33	▲ 222
Lead	ppm	ASTM D5185m >10	0	<1	2
Copper	ppm	ASTM D5185m >75	1	2	9
Tin	ppm	ASTM D5185m >8	0	0	0
Antimony	ppm	ASTM D5185m >50	---	---	4
Vanadium	ppm	ASTM D5185m	0	0	1
Cadmium	ppm	ASTM D5185m	0	0	<1

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	453	241	247
Barium	ppm	ASTM D5185m	0	0	2
Molybdenum	ppm	ASTM D5185m	<1	2	0
Manganese	ppm	ASTM D5185m	4	15	58
Magnesium	ppm	ASTM D5185m	1	12	38
Calcium	ppm	ASTM D5185m	37	120	345
Phosphorus	ppm	ASTM D5185m	1471	1163	1246
Zinc	ppm	ASTM D5185m	0	42	100
Sulfur	ppm	ASTM D5185m	28678	29028	29963

CONTAMINANTS

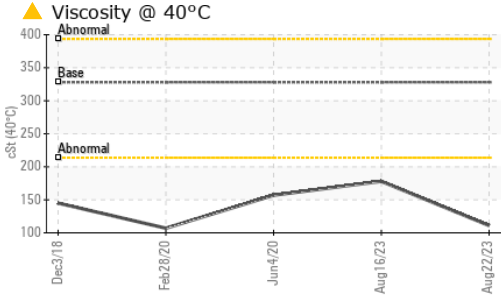
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >400	59	184	● 1221
Sodium	ppm	ASTM D5185m	3	3	31
Potassium	ppm	ASTM D5185m >20	2	11	73

VISUAL

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



OIL ANALYSIS REPORT



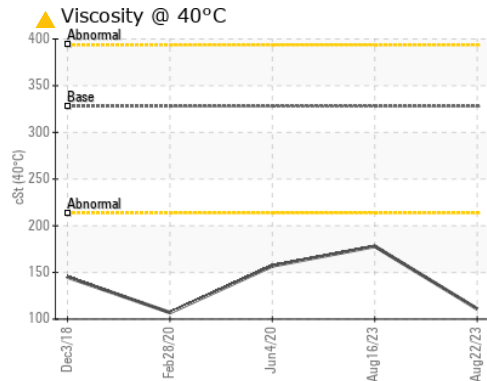
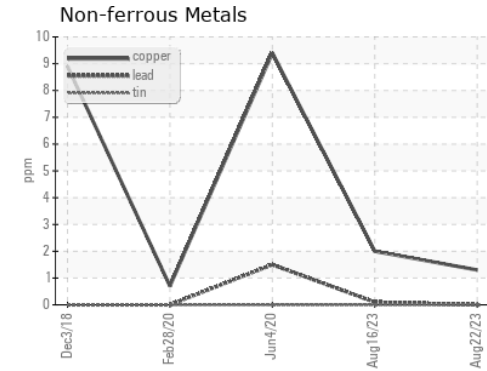
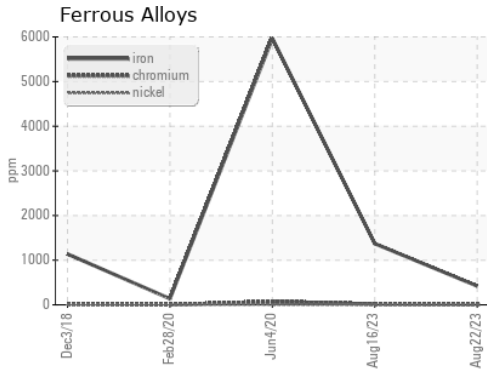
FLUID PROPERTIES

method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	328	▲ 111	178

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. : WC0821621 **Received** : 28 Aug 2023
Lab Number : 05936441 **Diagnosed** : 29 Aug 2023
Unique Number : 10621712 **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)