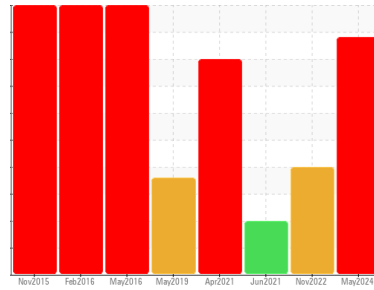




PROBLEM SUMMARY

Sample Rating Trend

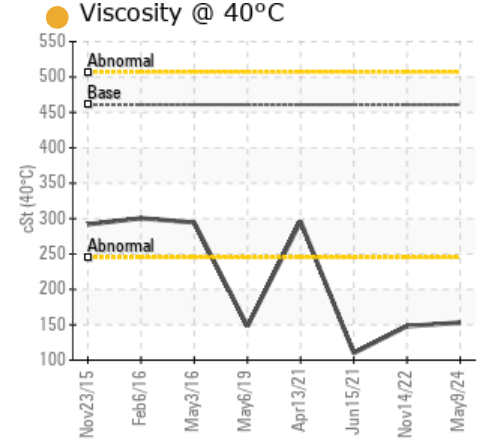
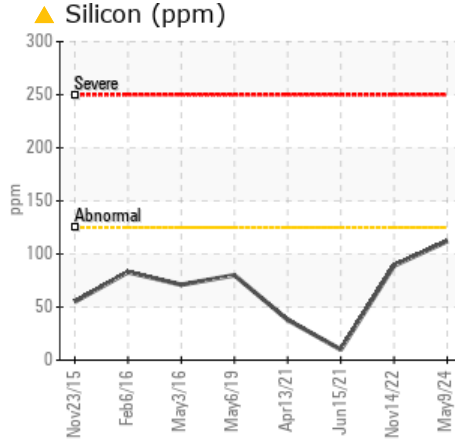
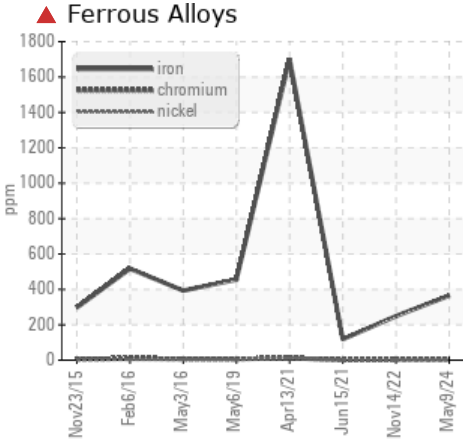


WEAR



Area
OKLAHOMA/102/EG - OTHER SERVICE
 Machine Id
54.09L [OKLAHOMA^102^EG - OTHER SERVICE]
 Component
Main Transmission (Manual)
 Fluid
MOBIL MOBILUBE HD PLUS 85W140 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The fluid 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.

PROBLEMATIC TEST RESULTS

Sample Status		SEVERE	ABNORMAL	ATTENTION
Iron	ppm ASTM D5185m >200	▲ 365	▲ 249	118
Silicon	ppm ASTM D5185m >125	▲ 112	▲ 89	10
Silt	scalar *Visual NONE	▲ MODER	NONE	NONE

Customer Id: SHEWIC
 Sample No.: WC0873881
 Lab Number: 06200671
 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.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

DIRT



14 Nov 2022 Diag: Don Baldrige

We advise that you check all areas where dirt can enter the system. The fluid 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. Elemental level of silicon (Si) above normal. The fluid viscosity is lower than normal. Confirm oil type.

view report



VISCOSITY



15 Jun 2021 Diag: Jonathan Hester

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The fluid viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

view report



WEAR



13 Apr 2021 Diag: Don Baldrige

The fluid 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. Moderate concentration of visible metal present. Gear wear is indicated. There is no indication of any contamination in the fluid. The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

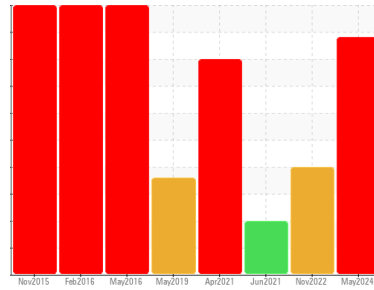
view report





OIL ANALYSIS REPORT

Sample Rating Trend



Area
OKLAHOMA/102/EG - OTHER SERVICE
 Machine Id
54.09L [OKLAHOMA^102^EG - OTHER SERVICE]
 Component
Main Transmission (Manual)
 Fluid
MOBIL MOBILUBE HD PLUS 85W140 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. The fluid 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.

Wear

Gear wear is indicated.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. There is a moderate amount of visible silt present in the sample.

Fluid Condition

The fluid viscosity is lower than normal. Confirm oil type. The fluid 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		WC0873881	WC0746333	WC0560385
Sample Date	Client Info		09 May 2024	14 Nov 2022	15 Jun 2021
Machine Age	hrs	Client Info	1828	1616	1247
Oil Age	hrs	Client Info	212	366	0
Oil Changed	Client Info		Changed	Changed	N/A
Sample Status			SEVERE	ABNORMAL	ATTENTION

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>200	▲ 365	▲ 249	118
Chromium	ppm	ASTM D5185m	>5	4	3	1
Nickel	ppm	ASTM D5185m	>5	0	1	<1
Titanium	ppm	ASTM D5185m		1	1	<1
Silver	ppm	ASTM D5185m	>7	0	0	0
Aluminum	ppm	ASTM D5185m	>25	6	6	1
Lead	ppm	ASTM D5185m	>45	0	<1	<1
Copper	ppm	ASTM D5185m	>225	10	5	<1
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Antimony	ppm	ASTM D5185m		---	---	<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		8	12	● 52
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		15	11	1
Magnesium	ppm	ASTM D5185m		5	5	16
Calcium	ppm	ASTM D5185m		109	55	● 3004
Phosphorus	ppm	ASTM D5185m		449	438	993
Zinc	ppm	ASTM D5185m		15	5	● 1188
Sulfur	ppm	ASTM D5185m		19756	19810	● 4529

CONTAMINANTS

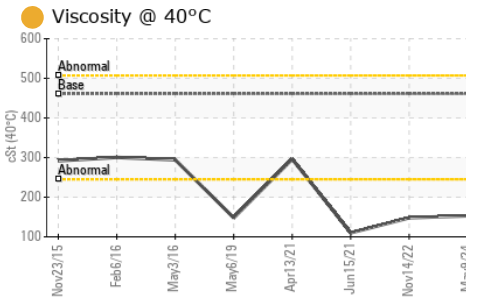
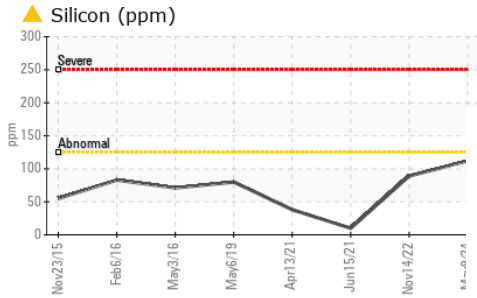
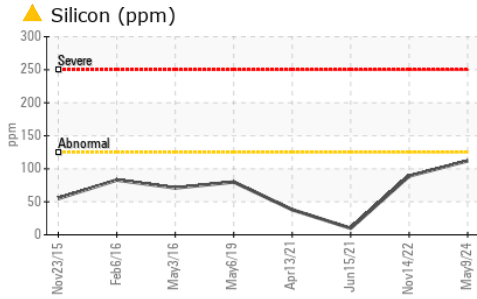
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>125	▲ 112	▲ 89	10
Sodium	ppm	ASTM D5185m		2	1	2
Potassium	ppm	ASTM D5185m	>20	2	0	0

VISUAL

	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	▲ MODER	LIGHT
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	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	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG



OIL ANALYSIS REPORT



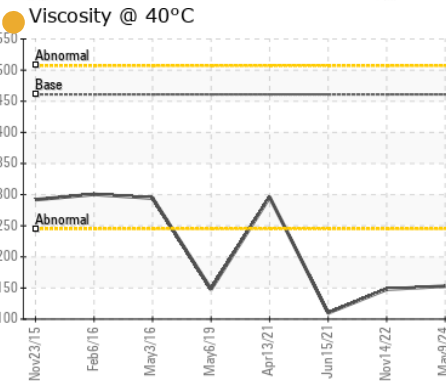
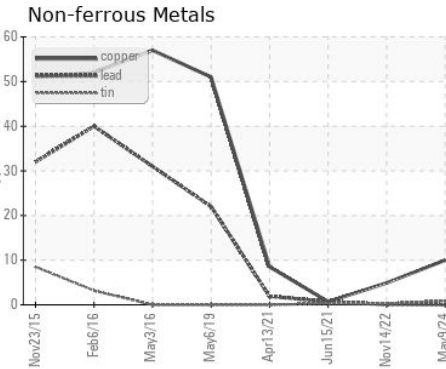
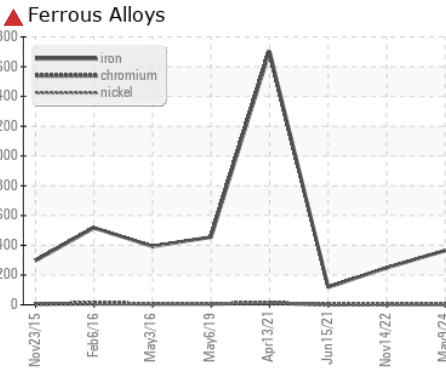
FLUID PROPERTIES

method limit/base current history1 history2
 Visc @ 40°C cSt ASTM D445 461 **153** 148 110

SAMPLE IMAGES

method	limit/base	current	history1	history2
Color				
Bottom				

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0873881
Lab Number : 06200671
Unique Number : 11062794
Test Package : CONST

Received : 05 Jun 2024
Tested : 06 Jun 2024
Diagnosed : 07 Jun 2024 - Sean Felton

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)