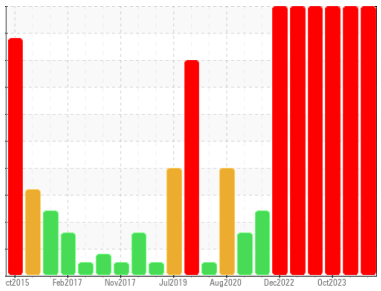
PROBLEM SUMMARY

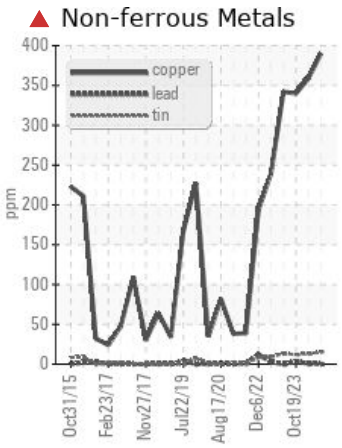
Area
OKLAHOMA/3/EG - EXCAVATOR
Machine Id
20.69L [OKLAHOMA^3^EG - EXCAVATOR]
Component
Left Final Drive
Fluid
MOBIL DELVAC 1350 (--- GAL)

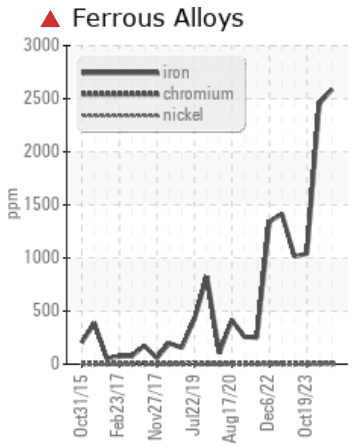
Sample Rating Trend

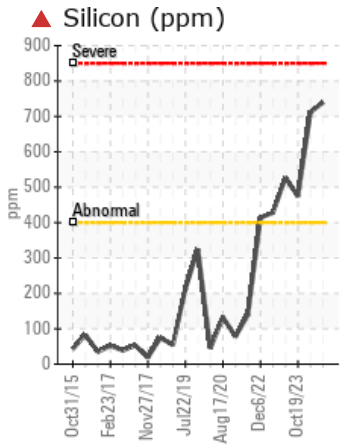


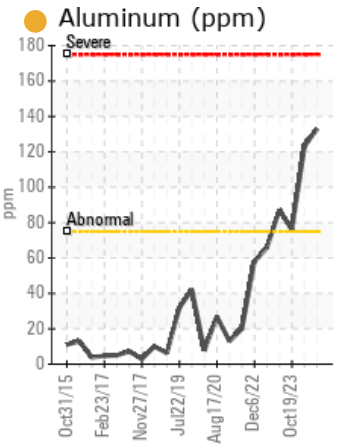
WEAR

COMPONENT CONDITION SUMMARY









RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. 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**	SEVERE	SEVERE
Iron	ppm	ASTM D5185m	>800	▲ **2589**	▲ 2455	▲ 1041
Copper	ppm	ASTM D5185m	>75	▲ **390**	▲ 359	▲ 340
Tin	ppm	ASTM D5185m	>8	▲ **15**	▲ 13	▲ 12
Silicon	ppm	ASTM D5185m	>400	▲ **740**	▲ 712	▲ 474

Customer Id: SHEWIC
Sample No.: WC0908871
Lab Number: 06200657
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.
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 Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

WEAR

12 May 2024 Diag: Don Baldridge

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.Gear wear is indicated. Bearing and/or bushing 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

WEAR

19 Oct 2023 Diag: Don Baldridge

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.Gear wear is indicated. Bearing and/or bushing 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

WEAR

05 Aug 2023 Diag: Don Baldridge

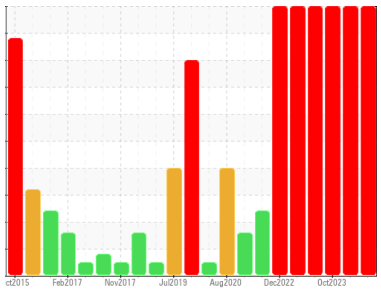
We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.Gear wear is indicated. Bearing and/or bushing 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

OIL ANALYSIS REPORT

Area
OKLAHOMA/3/EG - EXCAVATOR
Machine Id
20.69L [OKLAHOMA^3^EG - EXCAVATOR]
Component
Left Final Drive
Fluid
MOBIL DELVAC 1350 (--- GAL)

Sample Rating Trend



WEAR

DIAGNOSIS

Recommendation
We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. 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. Bearing and/or bushing wear is indicated.

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

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		**WC0908871**	WC0914399	WC0857247
Sample Date		Client Info		**29 May 2024**	12 May 2024	19 Oct 2023
Machine Age	hrs	Client Info		**13046**	12977	12320
Oil Age	hrs	Client Info		**69**	555	11496
Oil Changed		Client Info		**Not Changd**	Changed	Changed
Sample Status				**SEVERE**	SEVERE	SEVERE

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	▲ **2589**	▲ 2455	▲ 1041
Chromium	ppm	ASTM D5185m	>10	**7**	7	3
Nickel	ppm	ASTM D5185m	>5	**2**	5	1
Titanium	ppm	ASTM D5185m	>15	**9**	9	6
Silver	ppm	ASTM D5185m	>2	**0**	<1	0
Aluminum	ppm	ASTM D5185m	>75	● **133**	▲ 123	● 76
Lead	ppm	ASTM D5185m	>10	**<1**	<1	3
Copper	ppm	ASTM D5185m	>75	▲ **390**	▲ 359	▲ 340
Tin	ppm	ASTM D5185m	>8	▲ **15**	▲ 13	▲ 12
Vanadium	ppm	ASTM D5185m		**<1**	<1	0
Cadmium	ppm	ASTM D5185m		**<1**	<1	0

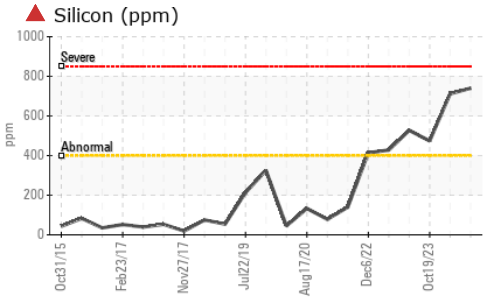
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**8**	9	6
Barium	ppm	ASTM D5185m		**2**	0	0
Molybdenum	ppm	ASTM D5185m		**4**	5	2
Manganese	ppm	ASTM D5185m		**20**	19	9
Magnesium	ppm	ASTM D5185m		**96**	85	57
Calcium	ppm	ASTM D5185m		**4056**	3891	3147
Phosphorus	ppm	ASTM D5185m		**1146**	1120	930
Zinc	ppm	ASTM D5185m		**1239**	1210	1077
Sulfur	ppm	ASTM D5185m		**14102**	14033	10883

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	▲ **740**	▲ 712	▲ 474
Sodium	ppm	ASTM D5185m		**16**	12	10
Potassium	ppm	ASTM D5185m	>20	**45**	41	22

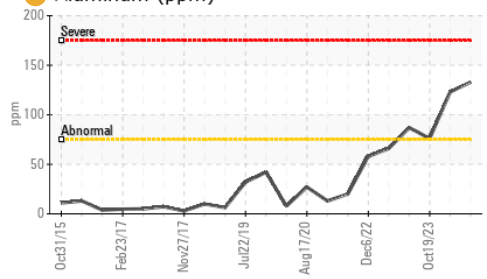
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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

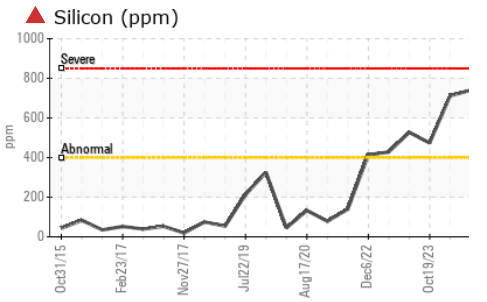
Silicon (ppm)



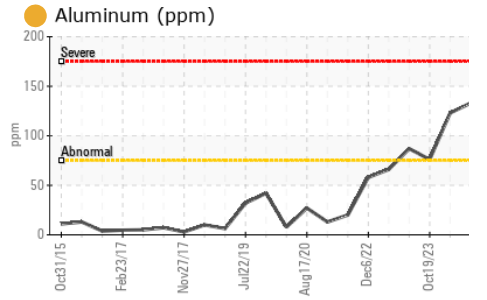
Aluminum (ppm)



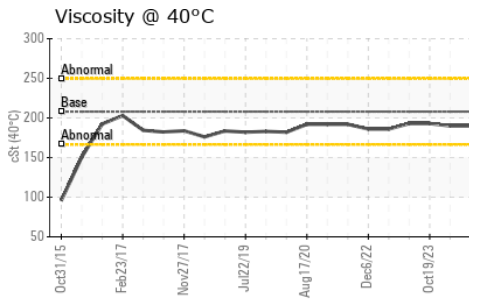
Silicon (ppm)



Aluminum (ppm)



Viscosity @ 40°C

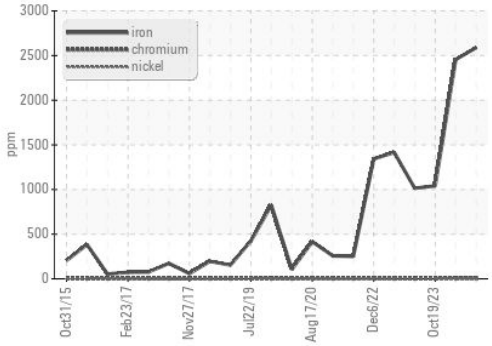


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	208	**190**	190	193

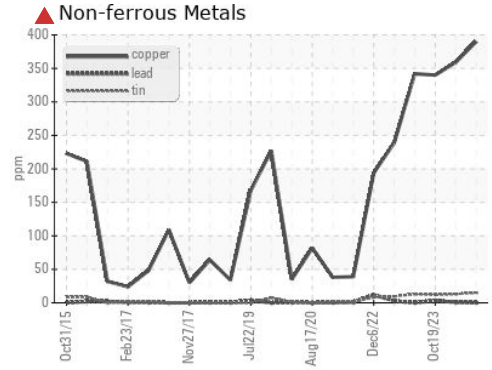
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

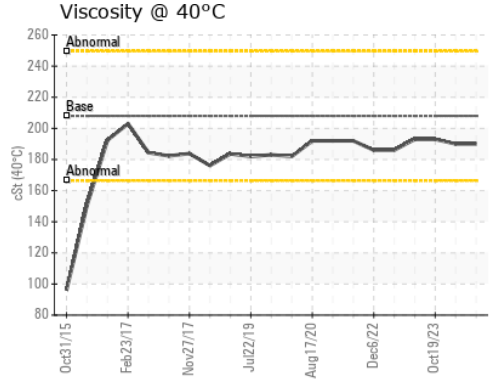
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0908871
Lab Number : 06200657
Unique Number : 11062780
Test Package : CONST

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

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)

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: