

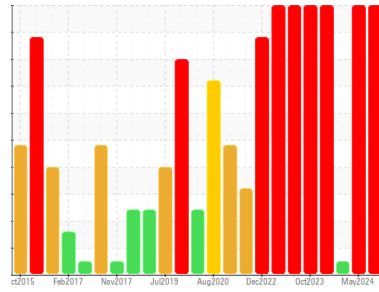


PROBLEM SUMMARY

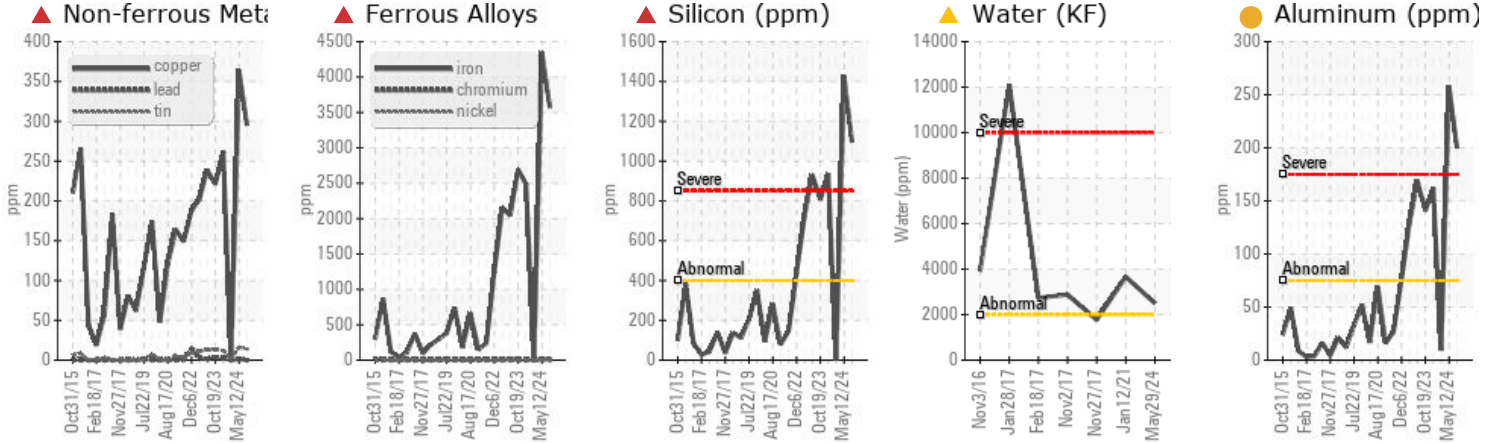


Area
OKLAHOMA/3/EG - EXCAVATOR
 Machine Id
20.69L [OKLAHOMA^3^EG - EXCAVATOR]
 Component
Right Final Drive
 Fluid
MOBIL DELVAC 1350 (--- GAL)

Sample Rating Trend



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	NORMAL
Iron	ppm	ASTM D5185m	>800	▲ 3572	▲ 4350	5
Chromium	ppm	ASTM D5185m	>10	▲ 11	▲ 14	1
Copper	ppm	ASTM D5185m	>75	▲ 295	▲ 364	<1
Tin	ppm	ASTM D5185m	>8	▲ 14	▲ 16	<1
Silicon	ppm	ASTM D5185m	>400	▲ 1096	▲ 1427	2
Water	%	ASTM D6304	>0.2	▲ 0.250	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 2500	---	---

Customer Id: SHEWIC
 Sample No.: WC0908872
 Lab Number: 06200662
 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 Baldrige
 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. Bearing and/or 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




NORMAL




13 Feb 2024 Diag: Wes Davis
 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




WEAR



31 Jan 2024 Diag: Don Baldrige
 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. Bearing and/or 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



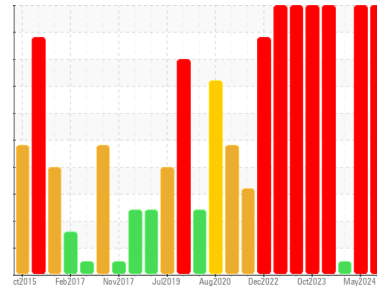


OIL ANALYSIS REPORT



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

Sample Rating Trend



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

Bearing and/or gear wear is indicated.

▲ Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a light concentration of water present in the oil.

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		WC0908872	WC0935185	WC0887008
Sample Date	Client Info		29 May 2024	12 May 2024	13 Feb 2024
Machine Age	hrs	Client Info	13046	12977	12603
Oil Age	hrs	Client Info	726	12320	241
Oil Changed	Client Info		Not Chngd	N/A	N/A
Sample Status			SEVERE	SEVERE	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >800	▲ 3572	▲ 4350	5
Chromium	ppm	ASTM D5185m >10	▲ 11	▲ 14	1
Nickel	ppm	ASTM D5185m >5	3	8	<1
Titanium	ppm	ASTM D5185m >15	14	19	0
Silver	ppm	ASTM D5185m >2	0	<1	0
Aluminum	ppm	ASTM D5185m >75	● 200	● 258	10
Lead	ppm	ASTM D5185m >10	0	1	0
Copper	ppm	ASTM D5185m >75	▲ 295	▲ 364	<1
Tin	ppm	ASTM D5185m >8	▲ 14	▲ 16	<1
Vanadium	ppm	ASTM D5185m	<1	1	1
Cadmium	ppm	ASTM D5185m	<1	<1	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	10	15	<1
Barium	ppm	ASTM D5185m	2	0	13
Molybdenum	ppm	ASTM D5185m	5	7	<1
Manganese	ppm	ASTM D5185m	27	35	<1
Magnesium	ppm	ASTM D5185m	123	156	<1
Calcium	ppm	ASTM D5185m	4464	5826	8
Phosphorus	ppm	ASTM D5185m	1108	1532	32
Zinc	ppm	ASTM D5185m	1287	1719	<1
Sulfur	ppm	ASTM D5185m	13839	18587	1151

CONTAMINANTS

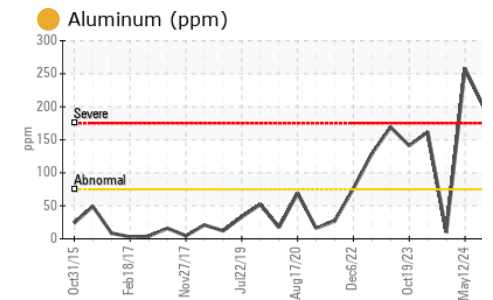
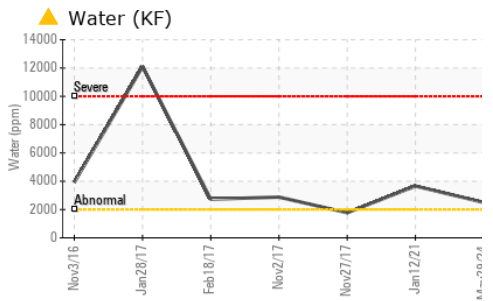
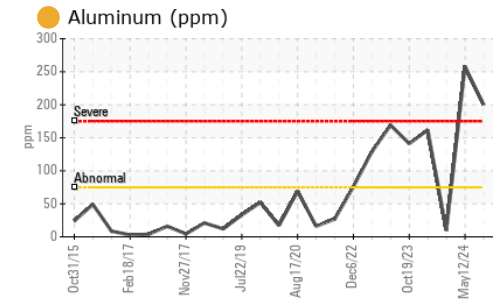
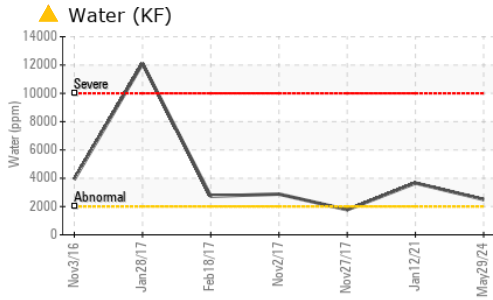
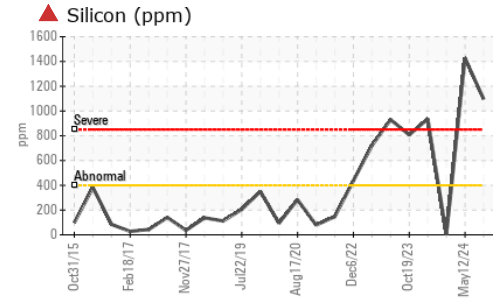
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >400	▲ 1096	▲ 1427	2
Sodium	ppm	ASTM D5185m	24	28	25
Potassium	ppm	ASTM D5185m >20	64	81	5
Water	%	ASTM D6304 >0.2	▲ 0.250	---	---
ppm Water	ppm	ASTM D6304 >2000	▲ 2500	---	---

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	MODER	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	0.2%	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG



OIL ANALYSIS REPORT

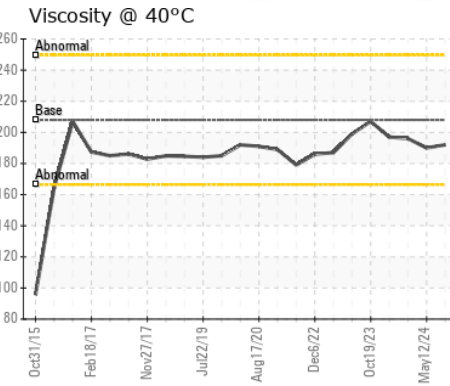
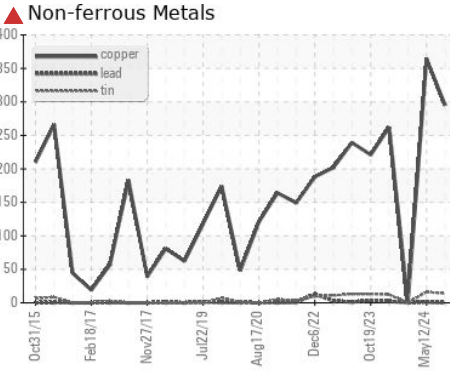
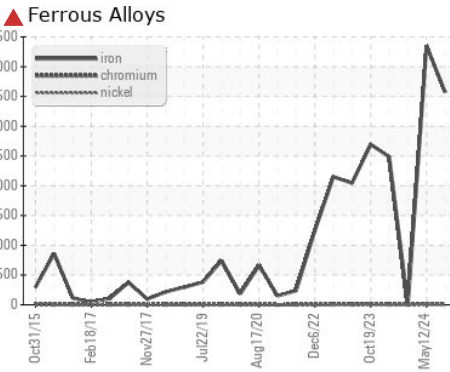


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	208	192	190	196

SAMPLE IMAGES		method	limit/base	current	history1	history2
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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. : WC0908872

Lab Number : 06200662

Unique Number : 11062785

Test Package : CONST (Additional Tests: KF)

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)

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