

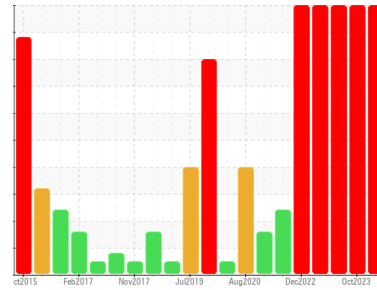


PROBLEM SUMMARY

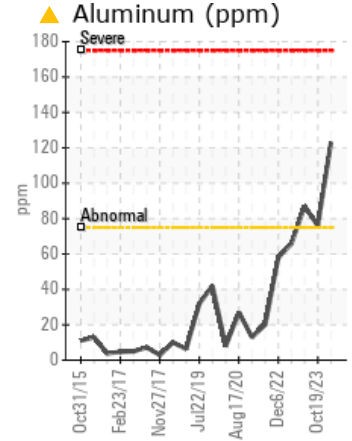
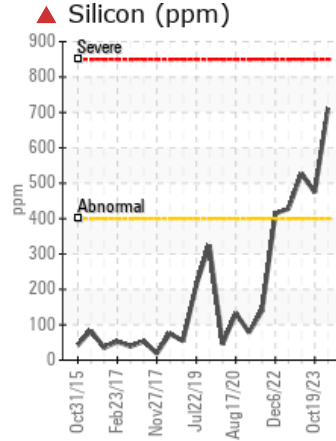
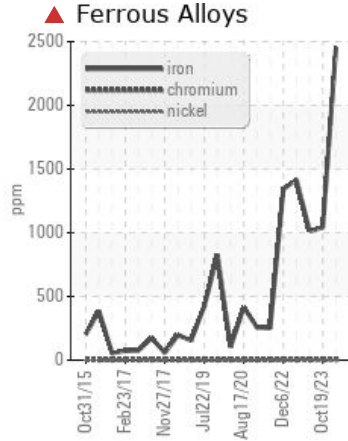
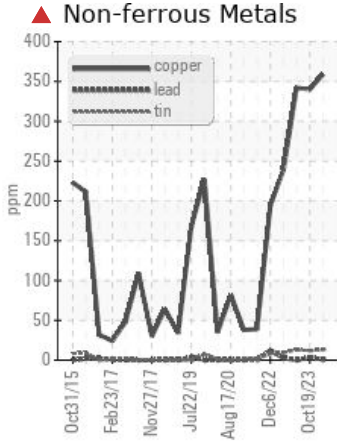


Area
OKLAHOMA/3/EG - EXCAVATOR
 Machine Id
20.69L [OKLAHOMA^3^EG - EXCAVATOR]
 Component
Left Final Drive
 Fluid
MOBIL DELVAC 1350 (--- GAL)

Sample Rating Trend



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 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	▲ 2455	▲ 1041	▲ 1014
Aluminum	ppm	ASTM D5185m >75	▲ 123	● 76	● 87
Copper	ppm	ASTM D5185m >75	▲ 359	▲ 340	▲ 342
Tin	ppm	ASTM D5185m >8	▲ 13	▲ 12	▲ 13
Silicon	ppm	ASTM D5185m >400	▲ 712	▲ 474	▲ 527

Customer Id: SHEWIC
 Sample No.: WC0914399
 Lab Number: 06185334
 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
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

WEAR



19 Oct 2023 Diag: Don Baldrige

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 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. 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



28 Apr 2023 Diag: Angela Borella

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. Copper ppm levels are severe. Iron and tin ppm levels are abnormal. Gear wear is indicated. Bearing and/or bushing wear is indicated. High concentration of dirt present in the oil. There is a light concentration of water present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

view report



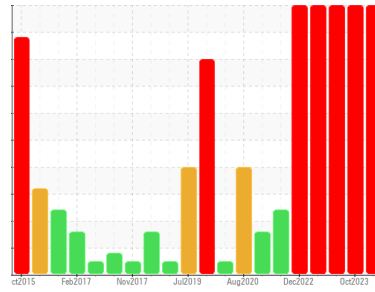


OIL ANALYSIS REPORT



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



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 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		WC0914399	WC0857247	WC0834065
Sample Date	Client Info		12 May 2024	19 Oct 2023	05 Aug 2023
Machine Age	hrs	Client Info	12977	12320	12061
Oil Age	hrs	Client Info	555	11496	361
Oil Changed	Client Info		Changed	Changed	N/A
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	▲ 2455	▲ 1041	▲ 1014
Chromium	ppm	ASTM D5185m >10	7	3	3
Nickel	ppm	ASTM D5185m >5	5	1	2
Titanium	ppm	ASTM D5185m >15	9	6	6
Silver	ppm	ASTM D5185m >2	<1	0	0
Aluminum	ppm	ASTM D5185m >75	▲ 123	76	87
Lead	ppm	ASTM D5185m >10	<1	3	<1
Copper	ppm	ASTM D5185m >75	▲ 359	▲ 340	▲ 342
Tin	ppm	ASTM D5185m >8	▲ 13	▲ 12	▲ 13
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	9	6	8
Barium	ppm	ASTM D5185m	0	0	2
Molybdenum	ppm	ASTM D5185m	5	2	3
Manganese	ppm	ASTM D5185m	19	9	9
Magnesium	ppm	ASTM D5185m	85	57	79
Calcium	ppm	ASTM D5185m	3891	3147	3508
Phosphorus	ppm	ASTM D5185m	1120	930	1052
Zinc	ppm	ASTM D5185m	1210	1077	1242
Sulfur	ppm	ASTM D5185m	14033	10883	15686

CONTAMINANTS

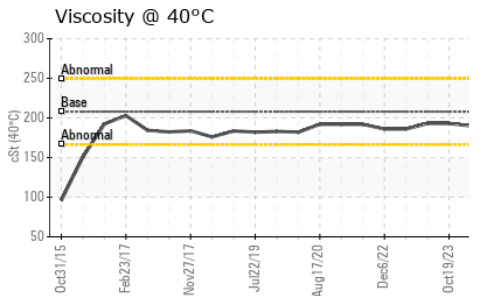
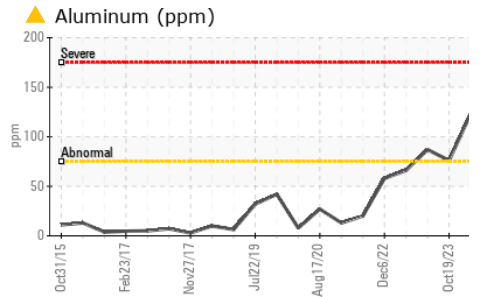
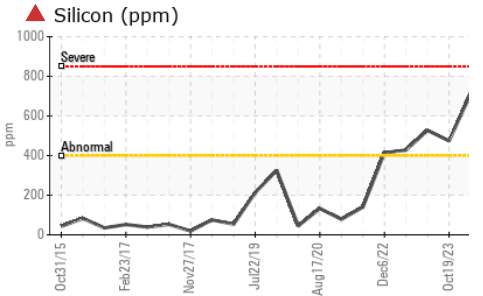
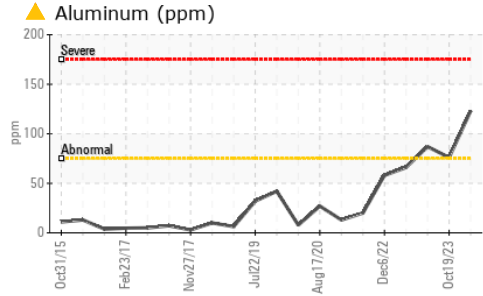
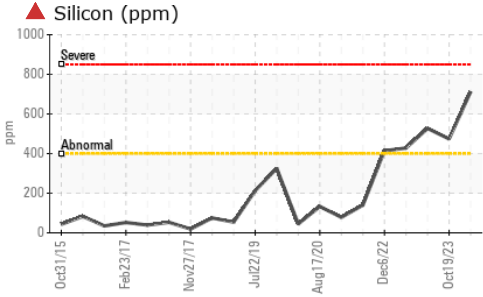
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >400	▲ 712	▲ 474	▲ 527
Sodium	ppm	ASTM D5185m	12	10	7
Potassium	ppm	ASTM D5185m >20	41	22	28

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



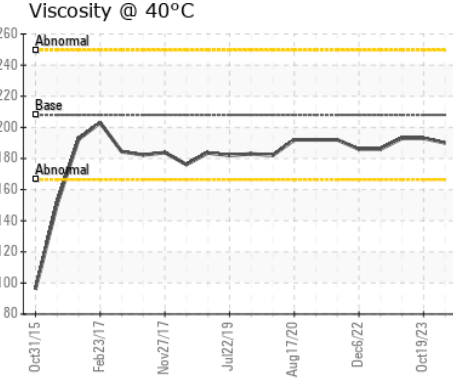
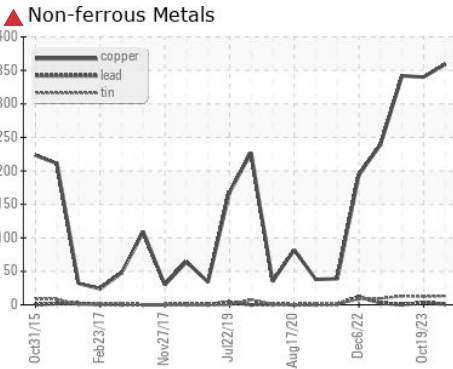
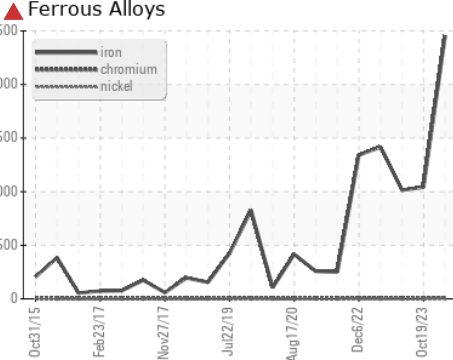
OIL ANALYSIS REPORT



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

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0914399
Lab Number : **06185334**
Unique Number : 11036660
Test Package : CONST

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 US 67213
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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)