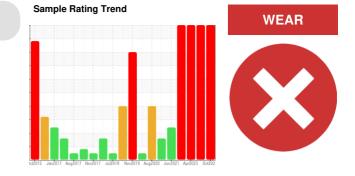


PROBLEM SUMMARY

OKLAHOMA/3/EG - EXCAVATOR

20.69L [OKLAHOMA^3^EG - EXCAVATOR]

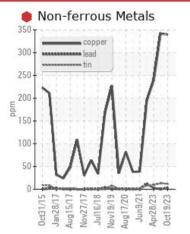
MOBIL DELVAC 1350 (--- GAL)

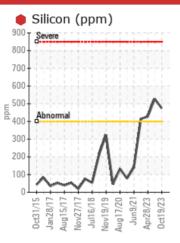


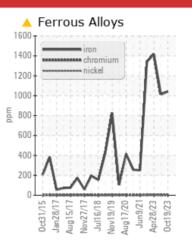
COMPONENT CONDITION SUMMARY

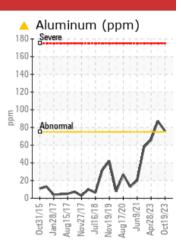
Component Left Final Drive

Fluic









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	🔺 1041	<u> </u>	1 416		
Aluminum	ppm	ASTM D5185m	>75	A 76	A 87	66		
Copper	ppm	ASTM D5185m	>75	🛑 340	9342	239		
Tin	ppm	ASTM D5185m	>8	 12	🔺 13	1 0		
Silicon	ppm	ASTM D5185m	>400	• 474	527	4 28		

Customer Id: SHEWIC Sample No.: WC0857247 Lab Number: 05998317 Test Package: CONST

To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +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



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.



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.



06 Dec 2022 Diag: Angela Borella



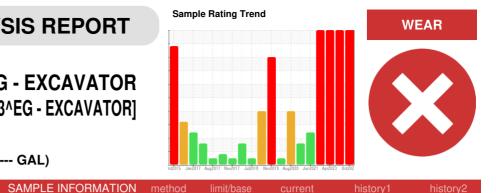
We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition.Copper ppm levels are severe. Iron and aluminum and tin ppm levels are abnormal. Lead ppm levels are noted. Gear wear is indicated. Bearing and/or bushing wear is indicated. High concentration of dirt present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.





OIL ANALYSIS REPORT

OKLAHOMA/3/EG - EXCAVATOR 20.69L [OKLAHOMA^3^EG - EXCAVATOR] Component



Fluid MOBIL DELVAC 1350 (--- GAL)

Left Final Drive

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.

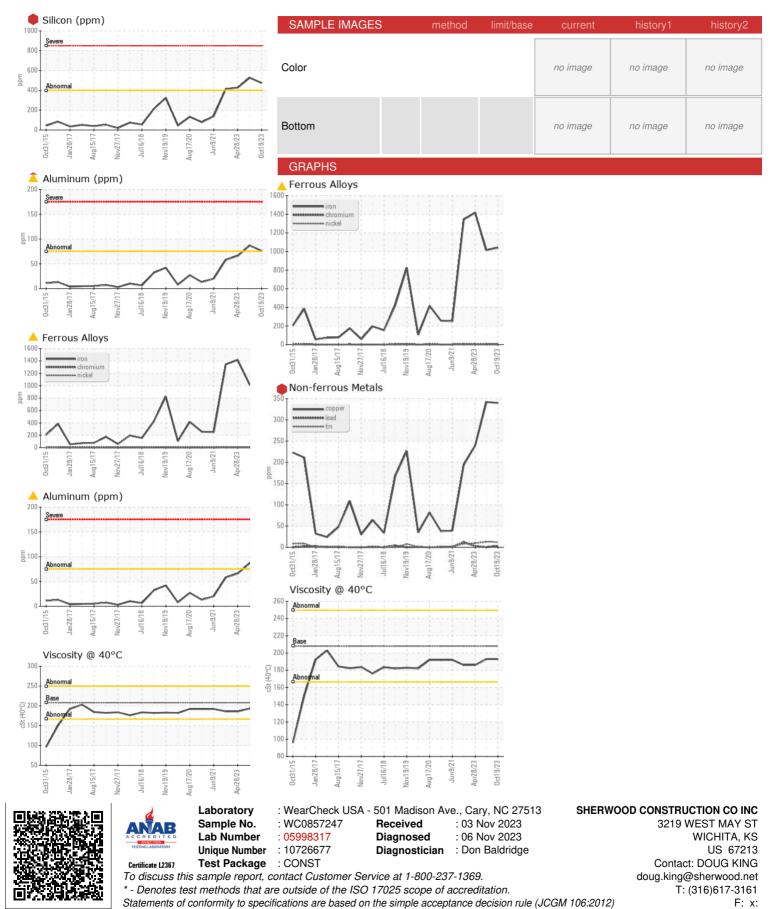
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0857247	WC0834065	WC0808046
Sample Date		Client Info		19 Oct 2023	05 Aug 2023	28 Apr 2023
Machine Age	hrs	Client Info		12320	12061	11496
Oil Age	hrs	Client Info		11496	361	10466
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				SEVERE	SEVERE	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	 1041	1 014	🔺 1416
Chromium	ppm	ASTM D5185m	>10	3	3	4
Nickel	ppm	ASTM D5185m	>5	1	2	3
Titanium	ppm	ASTM D5185m	>15	6	6	5
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>75	<mark>人</mark> 76	<mark>▲</mark> 87	66
Lead	ppm	ASTM D5185m	>10	3	<1	3
Copper	ppm	ASTM D5185m	>75	ම 340	9342	239
Tin	ppm	ASTM D5185m	>8	<mark>/</mark> 12	1 3	1 0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		6	8	7
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		2	3	4
Manganese	ppm	ASTM D5185m		9	9	11
Magnesium	ppm	ASTM D5185m		57	79	63
Calcium	ppm	ASTM D5185m		3147	3508	3354
Phosphorus	ppm	ASTM D5185m		930	1052	1020
Zinc	ppm	ASTM D5185m		1077	1242	1268
Sulfur	ppm	ASTM D5185m		10883	15686	14612
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	• 474	5 27	428
Sodium	ppm	ASTM D5185m		10	7	7
Potassium	ppm	ASTM D5185m	>20	22	28	19
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	0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	208	193	193	186
:45:52) Rev: 1				S	ubmitted By: GA	RRETT ADAM

Report Id: SHEWIC [WUSCAR] 05998317 (Generated: 11/06/2023 18:45:52) Rev: 1

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OIL ANALYSIS REPORT



Submitted By: GARRETT ADAMS

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