

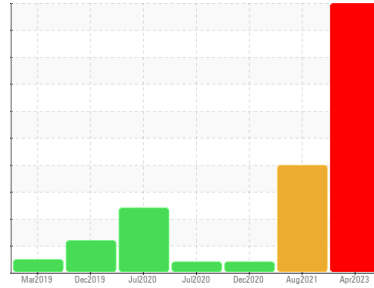


PROBLEM SUMMARY

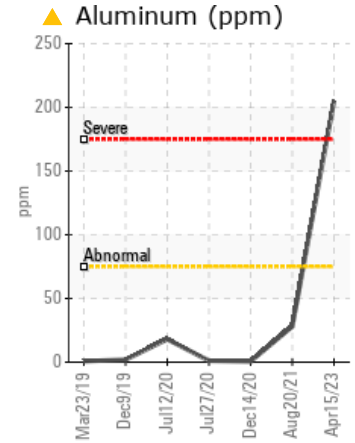
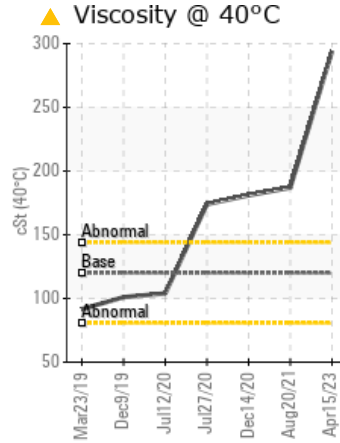
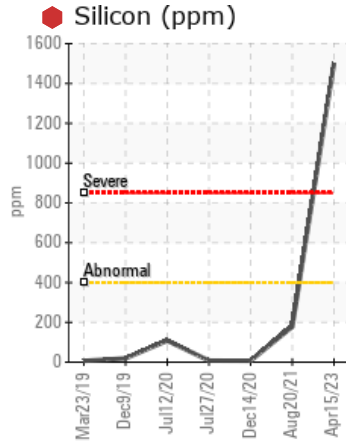
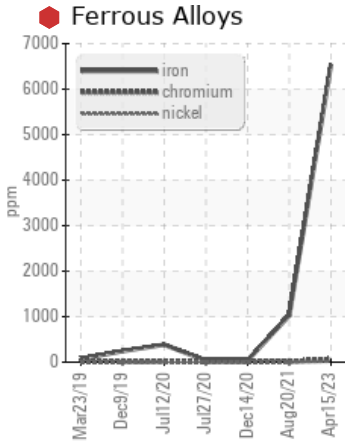


Area
KANSAS/44/EG - EXCAVATOR
 Machine Id
20.018L [KANSAS^44^EG - EXCAVATOR]
 Component
Right Final Drive
 Fluid
MOBIL DELVAC 1 SYNTHETIC GEAR SAE 75W90 (--- GAL)

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	ABNORMAL	ATTENTION
Iron	ppm	ASTM D5185m	>800	6543	1028	39
Chromium	ppm	ASTM D5185m	>10	71	12	<1
Nickel	ppm	ASTM D5185m	>5	16	<1	<1
Aluminum	ppm	ASTM D5185m	>75	205	28	<1
Silicon	ppm	ASTM D5185m	>400	1501	178	7
Visc @ 40°C	cSt	ASTM D445	120	294	187	181

Customer Id: SHEWIC
 Sample No.: WC0833905
 Lab Number: 05961491
 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.
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

20 Aug 2021 Diag: Don Baldrige

DIRT



We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

[view report](#)



14 Dec 2020 Diag: Angela Borella

VISCOSITY



Oil and filter change at the time of sampling has been noted. 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 oil viscosity is higher than normal. Confirm oil type.

[view report](#)



27 Jul 2020 Diag: Doug Bogart

VISCOSITY



The oil change at the time of sampling has been noted. 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 oil viscosity is higher than normal. Confirm oil type.

[view report](#)



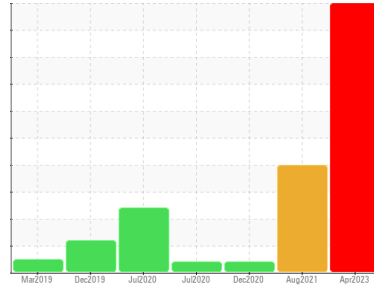


OIL ANALYSIS REPORT



Area
KANSAS/44/EG - EXCAVATOR
Machine Id
20.018L [KANSAS^44^EG - EXCAVATOR]
Component
Right Final Drive
Fluid
MOBIL DELVAC 1 SYNTHETIC GEAR SAE 75W90 (--- 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.

Contamination

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

Fluid Condition

The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0833905	WC0543455	WC0511872
Sample Date	Client Info	15 Apr 2023	20 Aug 2021	14 Dec 2020
Machine Age	hrs	2561	1649	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	Not Changd	Changed
Sample Status		SEVERE	ABNORMAL	ATTENTION

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >800	6543	1028	39
Chromium	ppm	ASTM D5185m >10	71	12	<1
Nickel	ppm	ASTM D5185m >5	16	<1	<1
Titanium	ppm	ASTM D5185m >15	13	2	0
Silver	ppm	ASTM D5185m >2	0	0	2
Aluminum	ppm	ASTM D5185m >75	205	28	<1
Lead	ppm	ASTM D5185m >10	<1	2	<1
Copper	ppm	ASTM D5185m >75	25	3	<1
Tin	ppm	ASTM D5185m >8	0	0	<1
Antimony	ppm	ASTM D5185m >50	---	0	0
Vanadium	ppm	ASTM D5185m	<1	<1	0
Cadmium	ppm	ASTM D5185m	<1	0	<1

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	231	122	271
Barium	ppm	ASTM D5185m	0	<1	0
Molybdenum	ppm	ASTM D5185m	6	0	0
Manganese	ppm	ASTM D5185m	44	8	<1
Magnesium	ppm	ASTM D5185m	28	3	0
Calcium	ppm	ASTM D5185m	74	48	30
Phosphorus	ppm	ASTM D5185m	1914	1153	1379
Zinc	ppm	ASTM D5185m	25	11	14
Sulfur	ppm	ASTM D5185m	33215	19992	22222

CONTAMINANTS

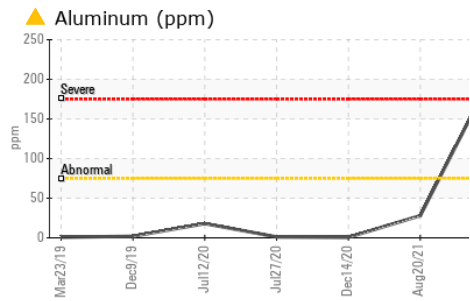
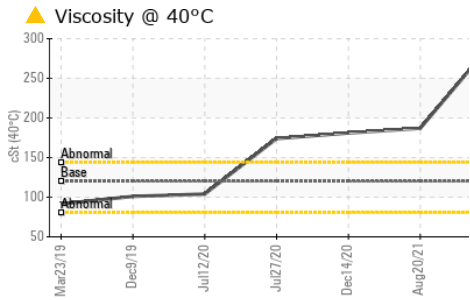
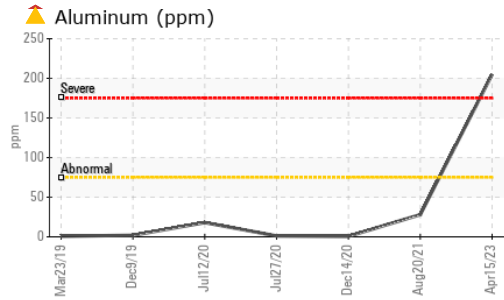
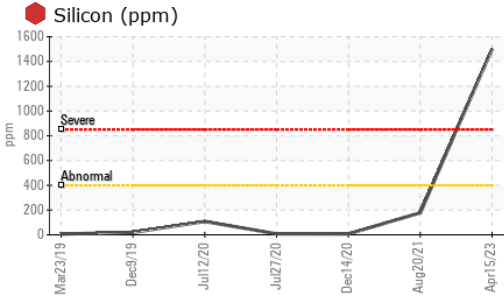
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >400	1501	178	7
Sodium	ppm	ASTM D5185m	38	5	<1
Potassium	ppm	ASTM D5185m >20	92	16	<1

VISUAL

method	limit/base	current	history1	history2	
White Metal	scalar	*Visual NONE	NONE	VLITE	MODER
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



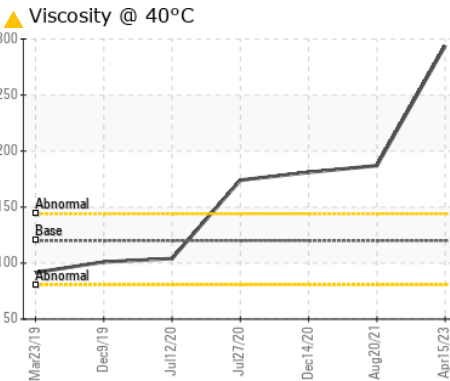
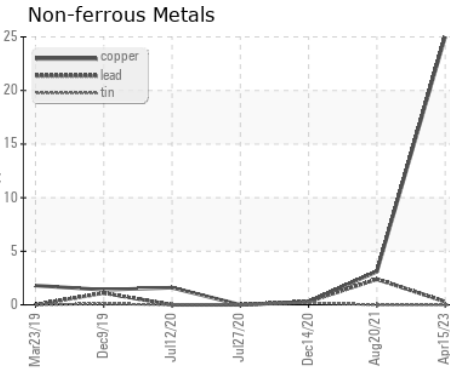
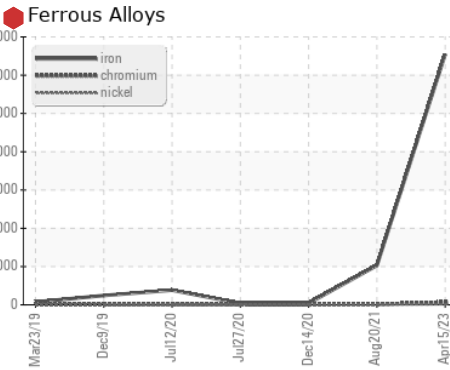
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	120	▲ 294	187	▲ 181

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0833905 **Received** : 26 Sep 2023
Lab Number : 05961491 **Diagnosed** : 28 Sep 2023
Unique Number : 10662704 **Diagnostician** : Don Baldrige
Test Package : CONST

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 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)