

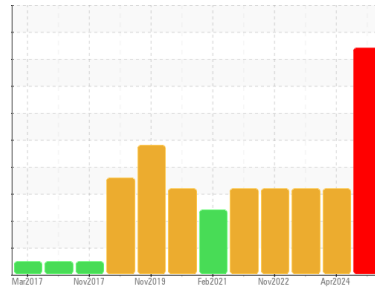


PROBLEM SUMMARY



Area
OKLAHOMA/102/EG - EXCAVATOR
 Machine Id
20.514L [OKLAHOMA^102^EG - EXCAVATOR]
 Component
Left Final Drive
 Fluid
MOBIL MOBILTRANS HD 50 (--- GAL)

Sample Rating Trend

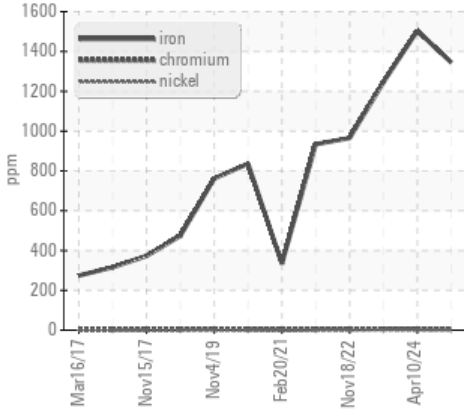


WEAR

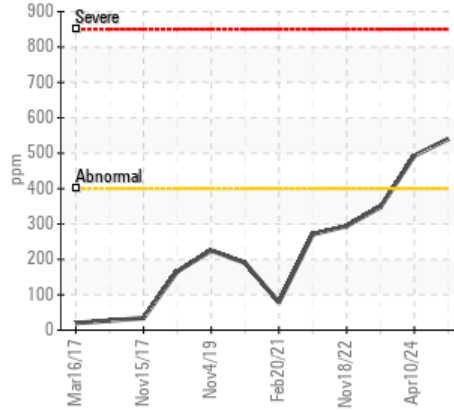


COMPONENT CONDITION SUMMARY

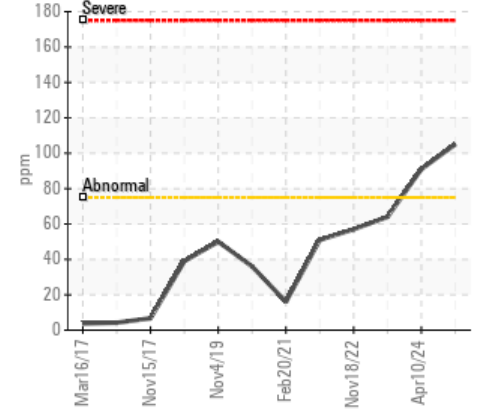
▲ Ferrous Alloys



▲ Silicon (ppm)



● Aluminum (ppm)



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

Sample	Unit	ASTM	Limit	SEVERE	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>800	▲ 1504	▲ 1345	▲ 1246
Silicon	ppm	ASTM D5185m	>400	▲ 493	▲ 540	▲ 348

Customer Id: SHEWIC
 Sample No.: WC0886980
 Lab Number: 06157142
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Jonathan Hester +1 919-379-4092 x4092
jhester@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.
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



10 Apr 2024 Diag: Sean Felton

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. 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



16 Jan 2023 Diag: Don Baldrige

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. 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



18 Nov 2022 Diag: Don Baldrige

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. 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



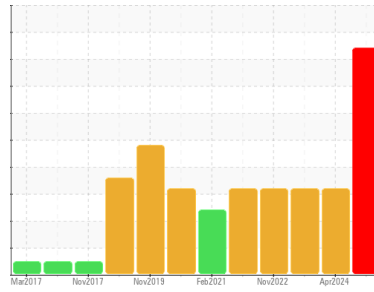


OIL ANALYSIS REPORT



Area
OKLAHOMA/102/EG - EXCAVATOR
 Machine Id
20.514L [OKLAHOMA^102^EG - EXCAVATOR]
 Component
Left Final Drive
 Fluid
MOBIL MOBILTRANS HD 50 (--- 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.

▲ Contamination

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

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0886980	WC0908849	WC0778385
Sample Date	Client Info		10 Apr 2024	10 Apr 2024	16 Jan 2023
Machine Age	hrs	Client Info	7005	1850	7005
Oil Age	hrs	Client Info	500	1000	4724
Oil Changed	Client Info		Changed	Changed	Not Changd
Sample Status			SEVERE	ABNORMAL	ABNORMAL

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	▲ 1504	▲ 1345	▲ 1246
Chromium	ppm	ASTM D5185m	>10	8	7	7
Nickel	ppm	ASTM D5185m	>5	0	<1	2
Titanium	ppm	ASTM D5185m	>15	7	7	5
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>75	● 91	● 105	● 64
Lead	ppm	ASTM D5185m	>10	0	0	2
Copper	ppm	ASTM D5185m	>75	<1	<1	2
Tin	ppm	ASTM D5185m	>8	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	<1

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		4	4	3
Barium	ppm	ASTM D5185m		2	2	11
Molybdenum	ppm	ASTM D5185m		3	2	3
Manganese	ppm	ASTM D5185m		14	13	11
Magnesium	ppm	ASTM D5185m		33	36	31
Calcium	ppm	ASTM D5185m		3099	3141	2593
Phosphorus	ppm	ASTM D5185m		1051	1049	875
Zinc	ppm	ASTM D5185m		1230	1240	1098
Sulfur	ppm	ASTM D5185m		15033	14327	13465

CONTAMINANTS

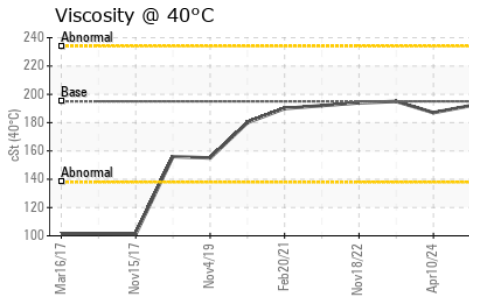
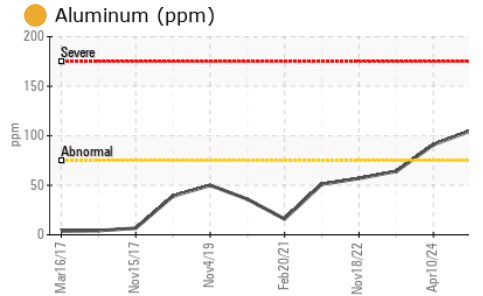
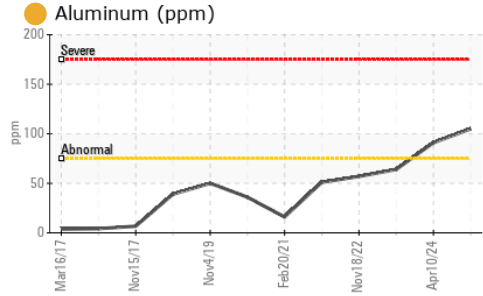
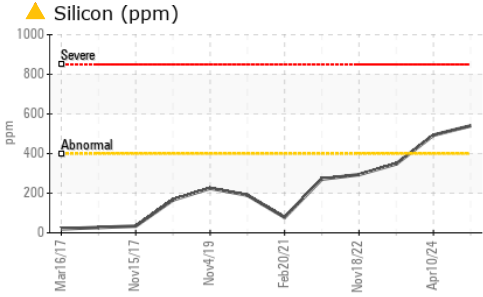
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>400	▲ 493	▲ 540	▲ 348
Sodium	ppm	ASTM D5185m		12	11	9
Potassium	ppm	ASTM D5185m	>20	28	33	18

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	LIGHT	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

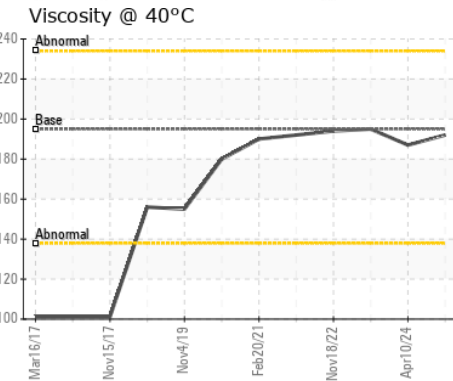
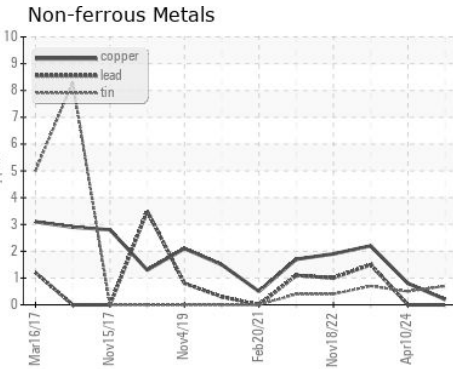
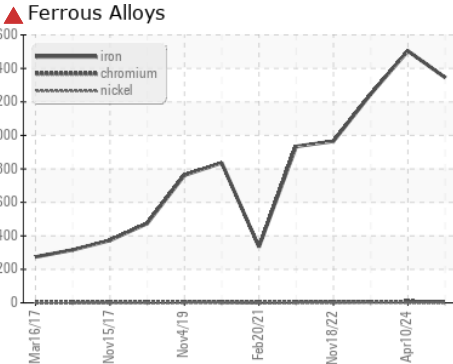


FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	195	192	187	195

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



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0886980
Lab Number : 06157142
Unique Number : 10992565
Test Package : CONST
Received : 22 Apr 2024
Tested : 23 Apr 2024
Diagnosed : 25 Apr 2024 - Jonathan Hester

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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)