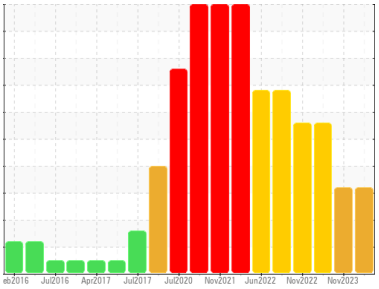
PROBLEM SUMMARY

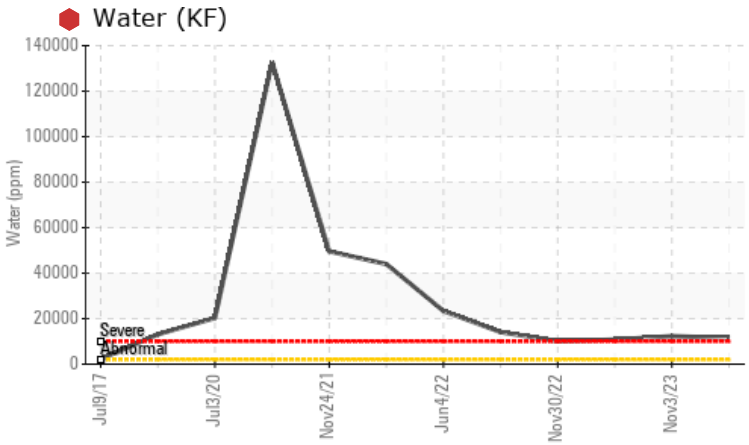
Area
OKLAHOMA/102/EG - EXCAVATOR
Machine Id
20.510L [OKLAHOMA^102^EG - EXCAVATOR]
Component
Rear Right Final Drive
Fluid
MOBIL MOBILTRANS HD 50 (--- GAL)

Sample Rating Trend



WATER

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. (Customer Sample Comment: 9908 hrs)

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	SEVERE	SEVERE
Water	%	ASTM D6304	>0.2	**1.15**	1.23	1.08
ppm Water	ppm	ASTM D6304	>2000	**11500**	12300	10800
Emulsified Water	scalar	*Visual	>0.2	**0.2%**	0.2%	0.2%

Customer Id: SHEWIC
Sample No.: WC0819865
Lab Number: 06026767
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
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 Water Access	---	---	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

03 Nov 2023 Diag: Jonathan Hester

WATER

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

view report

25 Aug 2023 Diag: Don Baldridge

WATER

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

view report

30 Nov 2022 Diag: Sean Felton

WATER

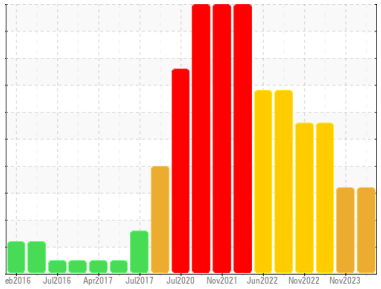
We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

view report

OIL ANALYSIS REPORT

Area
OKLAHOMA/102/EG - EXCAVATOR
Machine Id
20.510L [OKLAHOMA^102^EG - EXCAVATOR]
Component
Rear Right Final Drive
Fluid
MOBIL MOBILTRANS HD 50 (--- GAL)

Sample Rating Trend



WATER

DIAGNOSIS

Recommendation
We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. (Customer Sample Comment: 9908 hrs)

Wear
All component wear rates are normal.

Contamination
There is a high 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		**WC0819865**	WC0819924	WC0819956
Sample Date		Client Info		**28 Nov 2023**	03 Nov 2023	25 Aug 2023
Machine Age	hrs	Client Info		**9908**	9859	9610
Oil Age	hrs	Client Info		**6455**	6455	6455
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**SEVERE**	SEVERE	SEVERE

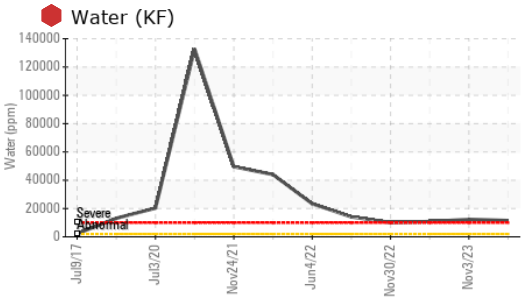
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	**610**	493	629
Chromium	ppm	ASTM D5185m	>10	**3**	2	3
Nickel	ppm	ASTM D5185m	>5	**<1**	<1	<1
Titanium	ppm	ASTM D5185m	>15	**2**	2	3
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>75	**31**	29	▲ 36
Lead	ppm	ASTM D5185m	>10	**0**	2	<1
Copper	ppm	ASTM D5185m	>75	**2**	0	1
Tin	ppm	ASTM D5185m	>8	**<1**	1	<1
Vanadium	ppm	ASTM D5185m		**0**	0	<1
Cadmium	ppm	ASTM D5185m		**<1**	<1	0

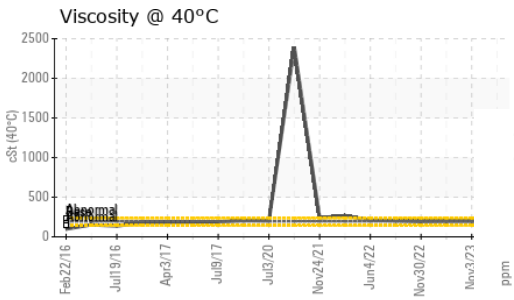
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**5**	8	4
Barium	ppm	ASTM D5185m		**0**	1	0
Molybdenum	ppm	ASTM D5185m		**2**	2	3
Manganese	ppm	ASTM D5185m		**6**	4	5
Magnesium	ppm	ASTM D5185m		**38**	34	39
Calcium	ppm	ASTM D5185m		**2730**	2377	2886
Phosphorus	ppm	ASTM D5185m		**1017**	926	1015
Zinc	ppm	ASTM D5185m		**1278**	1108	1282
Sulfur	ppm	ASTM D5185m		**10054**	8884	12183

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	**231**	210	▲ 255
Sodium	ppm	ASTM D5185m		**12**	8	12
Potassium	ppm	ASTM D5185m	>20	**14**	13	15
Water	%	ASTM D6304	>0.2	**1.15**	1.23	1.08
ppm Water	ppm	ASTM D6304	>2000	**11500**	12300	10800

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

OIL ANALYSIS REPORT

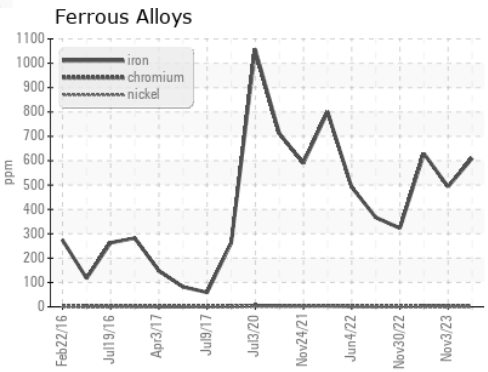


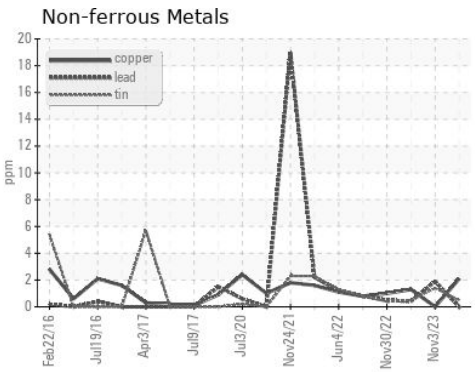


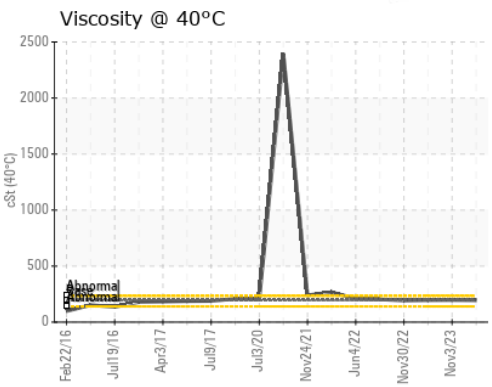
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	195	**195**	197	196

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. : WC0819865 **Received** : 06 Dec 2023
Lab Number : 06026767 **Diagnosed** : 08 Dec 2023
Unique Number : 10776558 **Diagnostician** : Don Baldridge
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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