

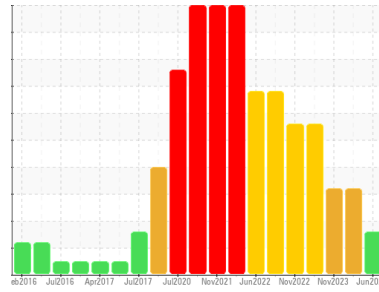


OIL ANALYSIS REPORT



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

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: 10399 hours)

Wear

All component wear rates are normal.

Contamination

There is a light concentration of water present in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0925163	WC0819865	WC0819924
Sample Date	Client Info		04 Jun 2024	28 Nov 2023	03 Nov 2023
Machine Age	hrs	Client Info	10399	9908	9859
Oil Age	hrs	Client Info	6455	6455	6455
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	SEVERE	SEVERE

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >800	242	610	493
Chromium	ppm	ASTM D5185m >10	1	3	2
Nickel	ppm	ASTM D5185m >5	0	<1	<1
Titanium	ppm	ASTM D5185m >15	1	2	2
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >75	14	31	29
Lead	ppm	ASTM D5185m >10	0	0	2
Copper	ppm	ASTM D5185m >75	<1	2	0
Tin	ppm	ASTM D5185m >8	0	<1	1
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	0	<1	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	13	5	8
Barium	ppm	ASTM D5185m	0	0	1
Molybdenum	ppm	ASTM D5185m	4	2	2
Manganese	ppm	ASTM D5185m	1	6	4
Magnesium	ppm	ASTM D5185m	40	38	34
Calcium	ppm	ASTM D5185m	3003	2730	2377
Phosphorus	ppm	ASTM D5185m	963	1017	926
Zinc	ppm	ASTM D5185m	1110	1278	1108
Sulfur	ppm	ASTM D5185m	11050	10054	8884

CONTAMINANTS

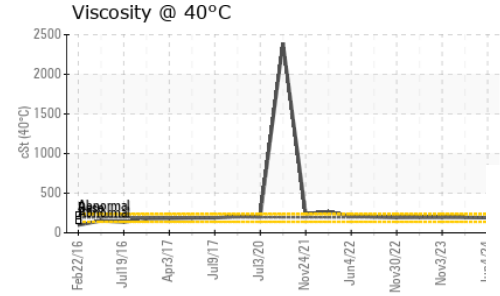
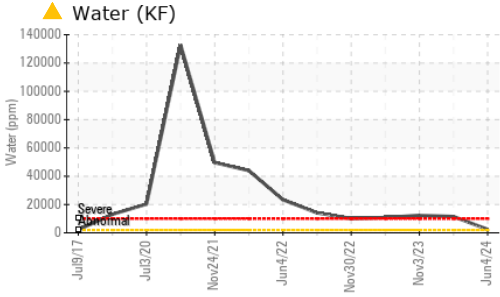
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >400	103	231	210
Sodium	ppm	ASTM D5185m	2	12	8
Potassium	ppm	ASTM D5185m >20	6	14	13
Water	%	ASTM D6304 >0.2	▲ 0.242	▲ 1.15	▲ 1.23
ppm Water	ppm	ASTM D6304 >2000	▲ 2420	▲ 11500	▲ 12300

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



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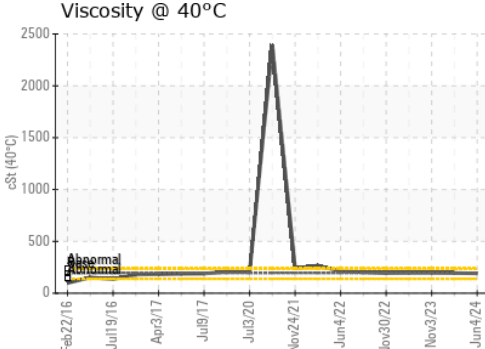
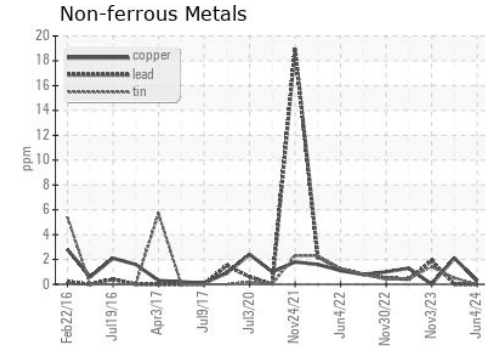
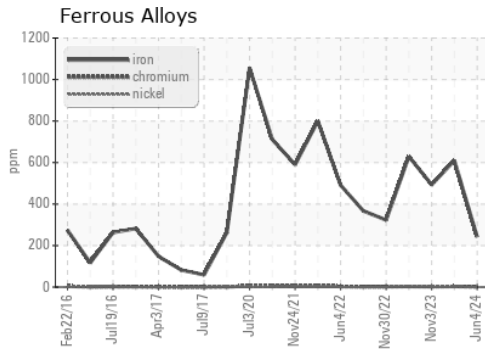


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	195	195	197

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0925163 **Received** : 10 Jun 2024
Lab Number : 06205808 **Tested** : 13 Jun 2024
Unique Number : 11073269 **Diagnosed** : 13 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: KF)

SHERWOOD CONSTRUCTION CO INC
 3219 WEST MAY ST
 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)