

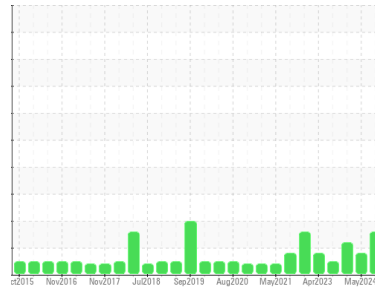


OIL ANALYSIS REPORT



Area
OKLAHOMA/3/EG - EXCAVATOR
 Machine Id
20.69L [OKLAHOMA^3^EG - EXCAVATOR]
 Component
Hydraulic System
 Fluid
MOBIL MOBILTRANS AST 30 (--- GAL)

Sample Rating Trend



WATER



DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0908868	WC0914398	WC0886946
Sample Date	Client Info		29 May 2024	12 May 2024	31 Jan 2024
Machine Age	hrs	Client Info	13046	13002	12603
Oil Age	hrs	Client Info	44	11082	11082
Oil Changed	Client Info		Not Chngd	Changed	N/A
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	10	11	13
Chromium	ppm	ASTM D5185m >10	0	0	<1
Nickel	ppm	ASTM D5185m >10	0	0	<1
Titanium	ppm	ASTM D5185m	0	<1	<1
Silver	ppm	ASTM D5185m	0	0	<1
Aluminum	ppm	ASTM D5185m >10	2	2	<1
Lead	ppm	ASTM D5185m >10	0	0	<1
Copper	ppm	ASTM D5185m >75	1	2	2
Tin	ppm	ASTM D5185m >10	<1	<1	<1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	80	72	97
Barium	ppm	ASTM D5185m	<1	0	5
Molybdenum	ppm	ASTM D5185m	<1	<1	2
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	21	20	20
Calcium	ppm	ASTM D5185m	3233	3207	3266
Phosphorus	ppm	ASTM D5185m	1126	1085	1014
Zinc	ppm	ASTM D5185m	1311	1307	1290
Sulfur	ppm	ASTM D5185m	5159	5347	4989

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	9	9	17
Sodium	ppm	ASTM D5185m	2	8	0
Potassium	ppm	ASTM D5185m >20	0	0	2
Water	%	ASTM D6304 >0.1	▲ 0.199	---	---
ppm Water	ppm	ASTM D6304 >1000	▲ 1990	---	---

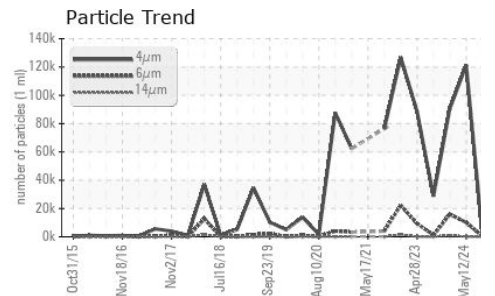
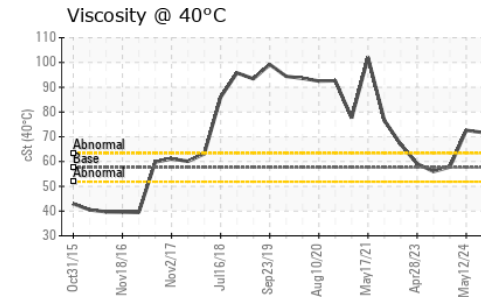
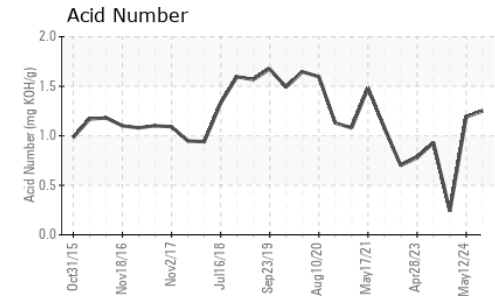
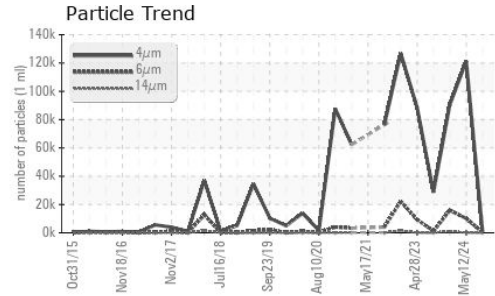
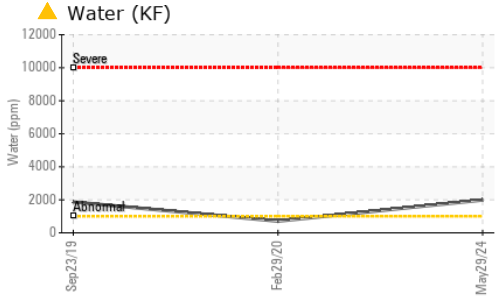
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		635	121197	90628
Particles >6µm	ASTM D7647	>2500	346	▲ 10142	▲ 15979
Particles >14µm	ASTM D7647	>640	59	182	● 884
Particles >21µm	ASTM D7647	>160	20	23	128
Particles >38µm	ASTM D7647	>40	3	1	1
Particles >71µm	ASTM D7647	>10	0	0	0
Oil Cleanliness	ISO 4406 (c)	>--/18/16	16/16/13	▲ 24/21/15	▲ 24/21/17

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.25	1.19	0.24

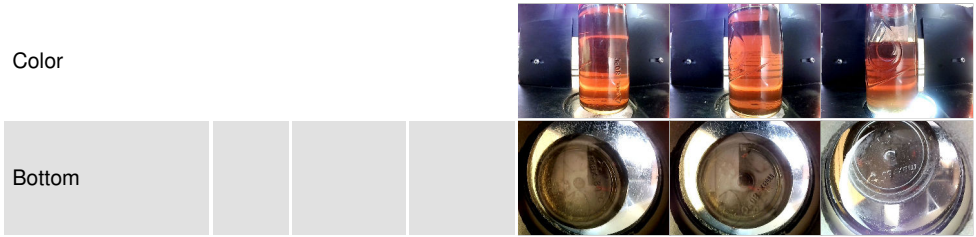
OIL ANALYSIS REPORT



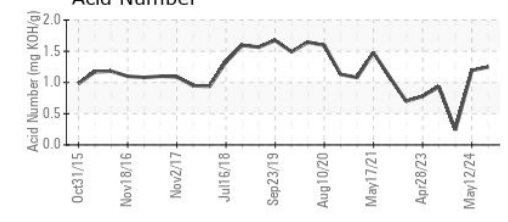
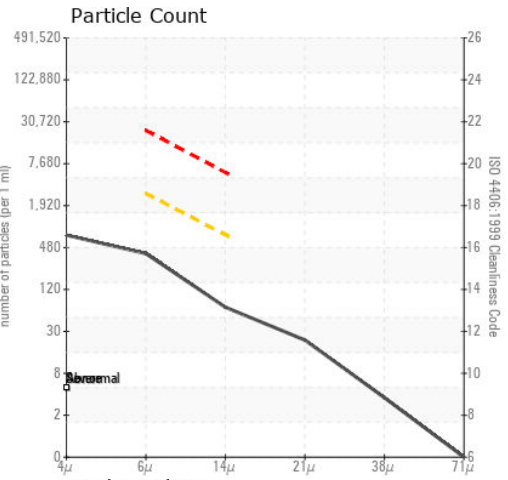
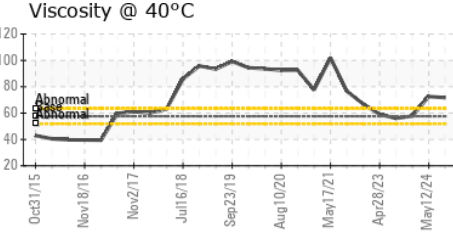
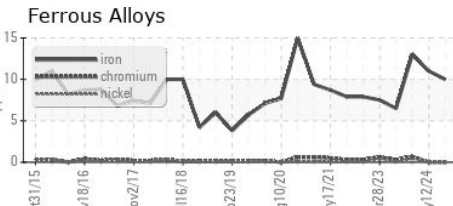
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	0.2%	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.6	71.7	72.6

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0908868 **Received** : 05 Jun 2024
Lab Number : 06200057 **Tested** : 13 Jun 2024
Unique Number : 11062180 **Diagnosed** : 13 Jun 2024 - Jonathan Hester
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)