



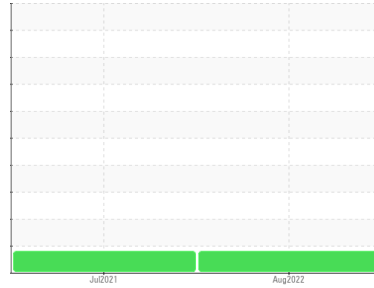
OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Area
KANSAS/88/EG - EXCAVATOR
 Machine Id
20.102C [KANSAS^88^EG - EXCAVATOR]
 Component
Hydraulic System
 Fluid
MOBIL MOBILTRANS AST 30 (--- GAL)



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Wear

The lead level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination 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		WC0673561	WC0585833	---
Sample Date	Client Info		23 Aug 2022	13 Jul 2021	---
Machine Age	hrs	Client Info	2925	2554	---
Oil Age	hrs	Client Info	2925	0	---
Oil Changed	Client Info		Not Chngd	Not Chngd	---
Sample Status			ABNORMAL	ABNORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	17	14	---
Chromium	ppm	ASTM D5185m >10	<1	<1	---
Nickel	ppm	ASTM D5185m	0	0	---
Titanium	ppm	ASTM D5185m	<1	<1	---
Silver	ppm	ASTM D5185m	<1	0	---
Aluminum	ppm	ASTM D5185m >10	3	2	---
Lead	ppm	ASTM D5185m >10	▲ 20	▲ 25	---
Copper	ppm	ASTM D5185m >75	24	23	---
Tin	ppm	ASTM D5185m >10	<1	<1	---
Antimony	ppm	ASTM D5185m	---	0	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	11	---
Barium	ppm	ASTM D5185m	1	0	---
Molybdenum	ppm	ASTM D5185m	2	3	---
Manganese	ppm	ASTM D5185m	<1	<1	---
Magnesium	ppm	ASTM D5185m	17	20	---
Calcium	ppm	ASTM D5185m	878	975	---
Phosphorus	ppm	ASTM D5185m	387	408	---
Zinc	ppm	ASTM D5185m	464	505	---
Sulfur	ppm	ASTM D5185m	2574	2503	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	8	7	---
Sodium	ppm	ASTM D5185m	5	5	---
Potassium	ppm	ASTM D5185m >20	0	<1	---

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		18953	13958	---
Particles >6µm	ASTM D7647	>2500	193	88	---
Particles >14µm	ASTM D7647	>640	15	9	---
Particles >21µm	ASTM D7647	>160	5	1	---
Particles >38µm	ASTM D7647	>40	0	0	---
Particles >71µm	ASTM D7647	>10	0	0	---
Oil Cleanliness	ISO 4406 (c)	>--/18/16	21/15/11	21/14/10	---



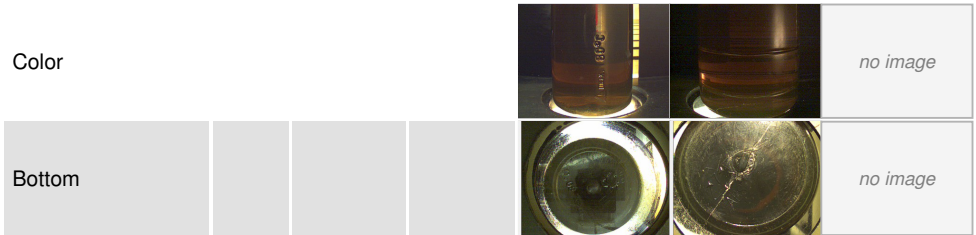
OIL ANALYSIS REPORT

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.44	0.356	---

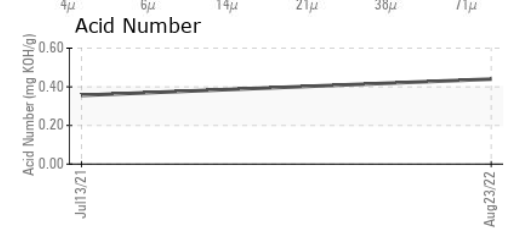
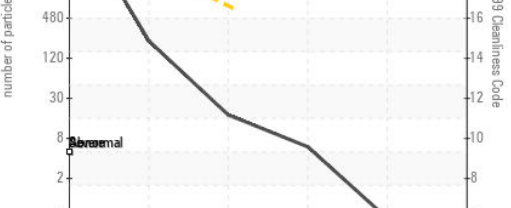
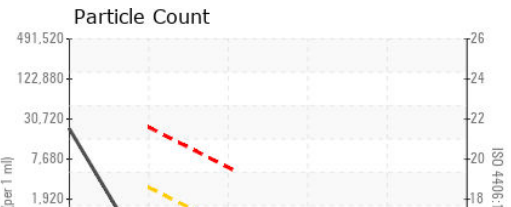
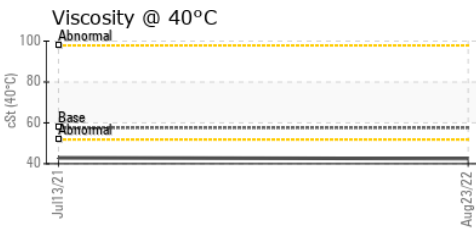
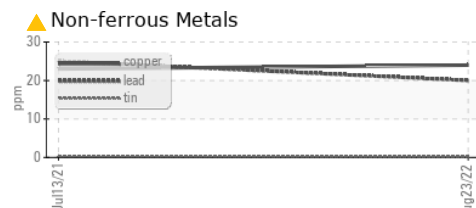
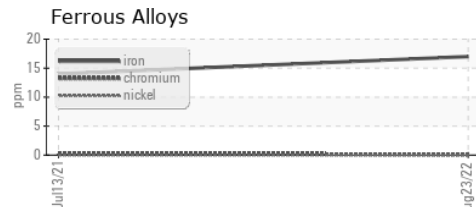
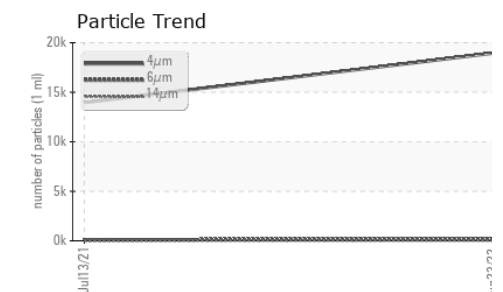
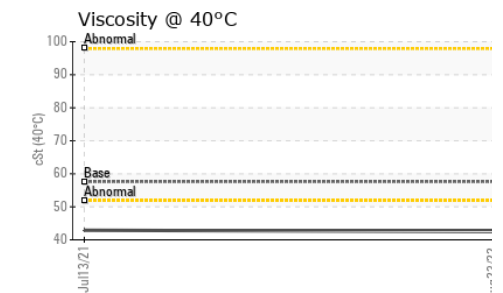
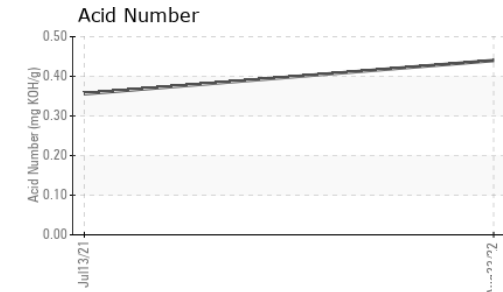
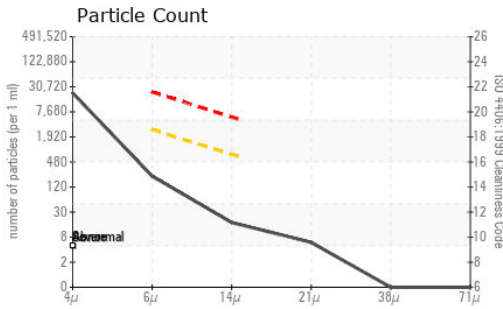
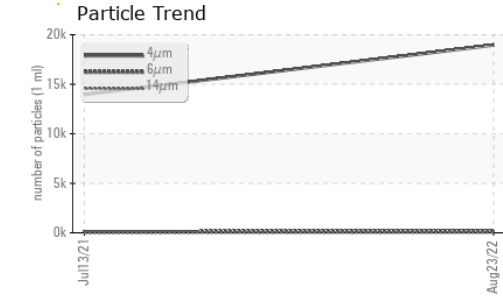
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	42.5	42.9	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0673561
 Lab Number : 05629966
 Unique Number : 10114487
 Test Package : CONST

Received : 30 Aug 2022
 Tested : 31 Aug 2022
 Diagnosed : 31 Aug 2022 - Angela Borella

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)