



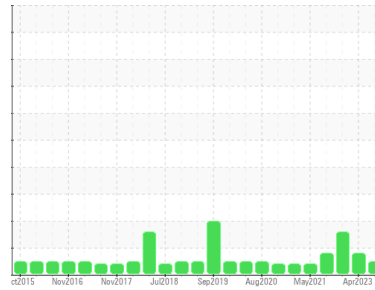
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



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



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

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		WC0834146	WC0808045	WC0769601
Sample Date	Client Info		05 Aug 2023	28 Apr 2023	13 Feb 2023
Machine Age	hrs	Client Info	12061	11496	11082
Oil Age	hrs	Client Info	11082	11082	7187
Oil Changed	Client Info		N/A	N/A	Changed
Sample Status			NORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	6	8	8
Chromium	ppm	ASTM D5185m >10	<1	<1	<1
Nickel	ppm	ASTM D5185m >10	0	<1	0
Titanium	ppm	ASTM D5185m	<1	<1	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >10	3	<1	2
Lead	ppm	ASTM D5185m >10	<1	<1	0
Copper	ppm	ASTM D5185m >75	2	<1	0
Tin	ppm	ASTM D5185m >10	<1	2	0
Vanadium	ppm	ASTM D5185m	<1	<1	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	106	82	71
Barium	ppm	ASTM D5185m	1	0	0
Molybdenum	ppm	ASTM D5185m	1	2	1
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	28	26	21
Calcium	ppm	ASTM D5185m	3195	3305	3251
Phosphorus	ppm	ASTM D5185m	1022	1113	1010
Zinc	ppm	ASTM D5185m	1263	1414	1250
Sulfur	ppm	ASTM D5185m	4764	5664	5126

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	12	10	9
Sodium	ppm	ASTM D5185m	3	4	<1
Potassium	ppm	ASTM D5185m >20	<1	2	0

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		28704	88486	126835
Particles >6µm	ASTM D7647	>2500	1230	▲ 9350	▲ 22328
Particles >14µm	ASTM D7647	>640	77	54	▲ 1609
Particles >21µm	ASTM D7647	>160	18	10	▲ 371
Particles >38µm	ASTM D7647	>40	0	1	3
Particles >71µm	ASTM D7647	>10	0	0	0
Oil Cleanliness	ISO 4406 (c)	>--/18/16	22/17/13	▲ 24/20/13	▲ 24/22/18

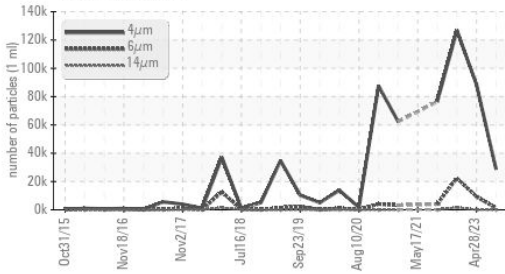
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.93	0.78	0.70

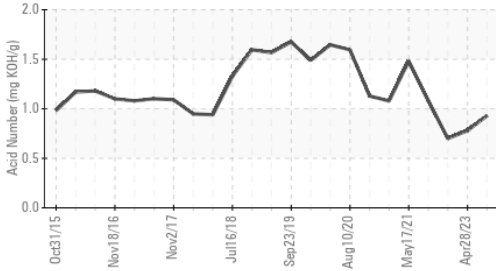


OIL ANALYSIS REPORT

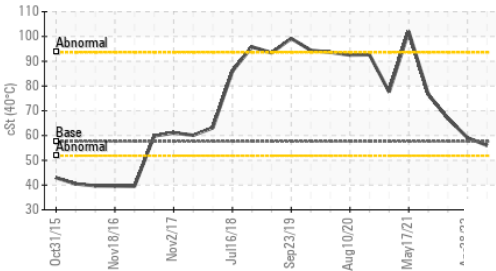
Particle Trend



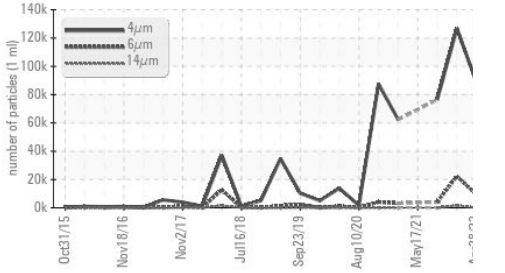
Acid Number



Viscosity @ 40°C



Particle Trend



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE
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	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.6	56.0	59.1

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

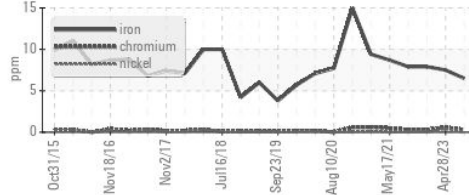


Bottom

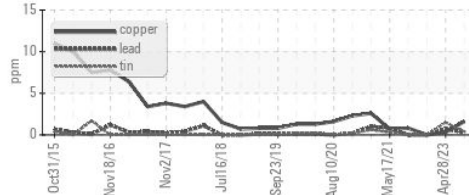


GRAPHS

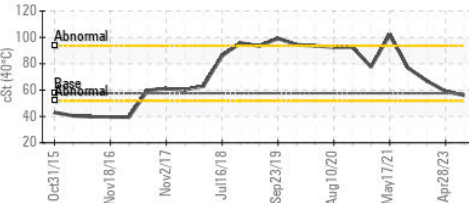
Ferrous Alloys



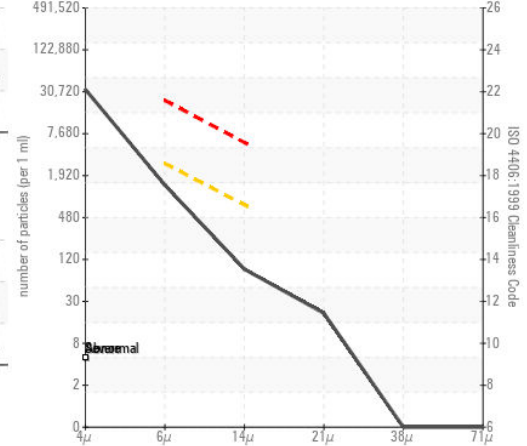
Non-ferrous Metals



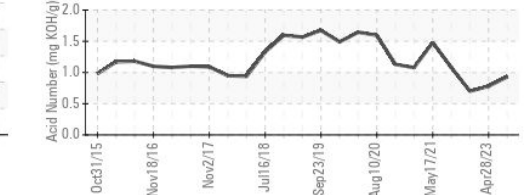
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0834146
 Lab Number : 05923310
 Unique Number : 10603257
 Test Package : CONST

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)