

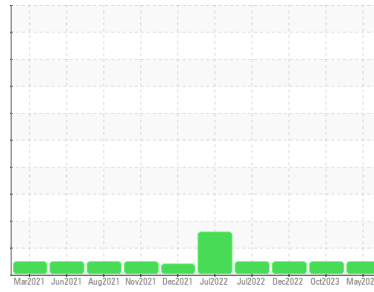


OIL ANALYSIS REPORT



Area
OKLAHOMA/102/EG - LOADER
 Machine Id
45.53L [OKLAHOMA^102^EG - LOADER]
 Component
Hydraulic System
 Fluid
MOBIL MOBILTRANS AST 30 (24 GAL)

Sample Rating Trend



NORMAL



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	WC0914460	WC0726210	WC0738473
Sample Date	Client Info	16 May 2024	24 Oct 2023	19 Dec 2022
Machine Age	hrs	4860	4540	3371
Oil Age	hrs	4860	500	1372
Oil Changed	Client Info	Not Chngd	N/A	Not Chngd
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >20	12	10	11
Chromium	ppm	ASTM D5185m >10	0	0	0
Nickel	ppm	ASTM D5185m >10	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >10	2	1	2
Lead	ppm	ASTM D5185m >10	<1	<1	1
Copper	ppm	ASTM D5185m >75	6	6	6
Tin	ppm	ASTM D5185m >10	<1	0	<1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	2	0	0
Barium	ppm	ASTM D5185m	1	<1	0
Molybdenum	ppm	ASTM D5185m	0	0	<1
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	4	2	4
Calcium	ppm	ASTM D5185m	429	305	338
Phosphorus	ppm	ASTM D5185m	776	678	703
Zinc	ppm	ASTM D5185m	928	876	889
Sulfur	ppm	ASTM D5185m	2253	1769	2199

CONTAMINANTS

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

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	2069	795	3002
Particles >6µm	ASTM D7647 >2500	288	187	592
Particles >14µm	ASTM D7647 >640	21	23	41
Particles >21µm	ASTM D7647 >160	3	10	10
Particles >38µm	ASTM D7647 >40	0	1	0
Particles >71µm	ASTM D7647 >10	0	0	0
Oil Cleanliness	ISO 4406 (c) >--/18/16	18/15/12	17/15/12	19/16/13

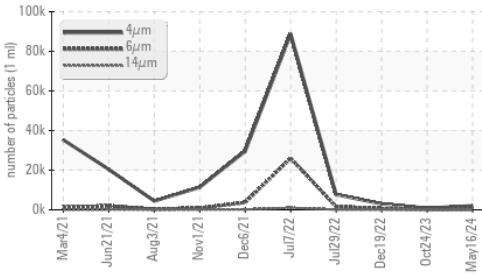
FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.64	0.62	0.60

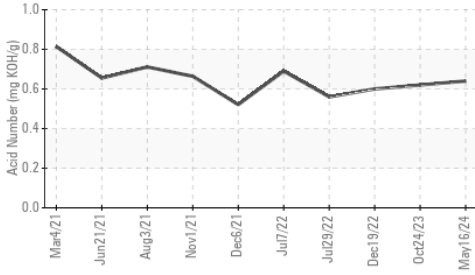


OIL ANALYSIS REPORT

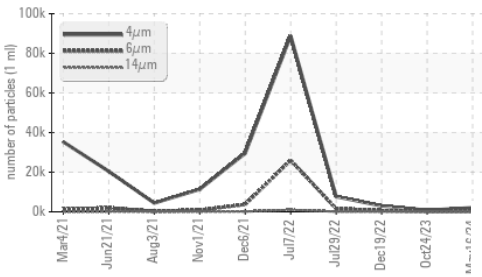
Particle Trend



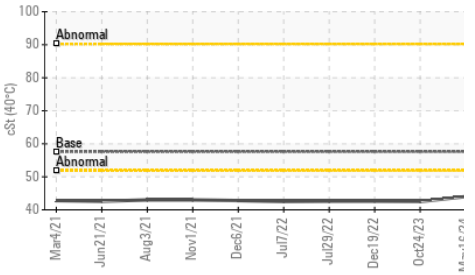
Acid Number



Particle Trend



Viscosity @ 40°C



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	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

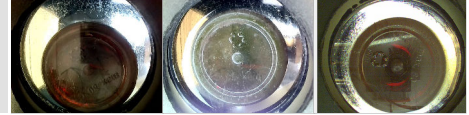
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.6	44.0	42.5

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

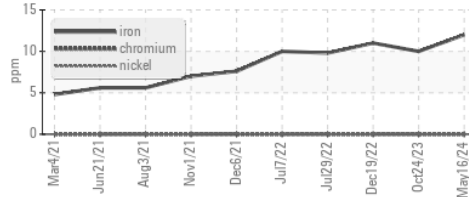


Bottom

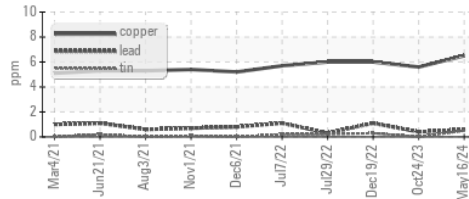


GRAPHS

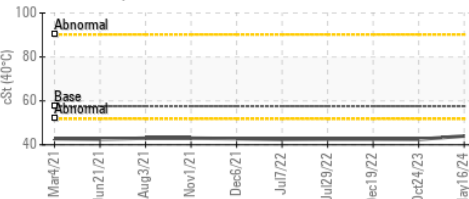
Ferrous Alloys



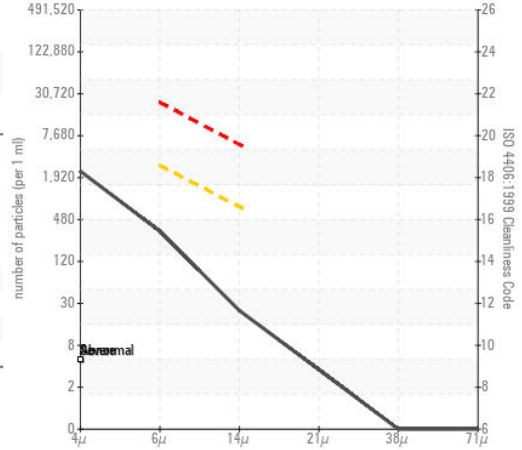
Non-ferrous Metals



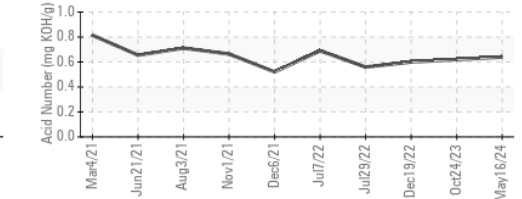
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0914460

Lab Number : 06200083

Unique Number : 11062206

Test Package : CONST

Received : 05 Jun 2024

Tested : 06 Jun 2024

Diagnosed : 07 Jun 2024 - Don Baldrige

SHERWOOD CONSTRUCTION CO INC

3219 WEST MAY ST

WICHITA, KS

US 67213

Contact: DOUG KING

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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)