

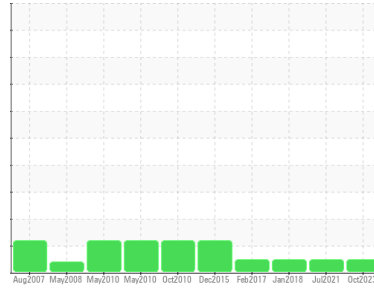


OIL ANALYSIS REPORT



Area
OKLAHOMA/102/HY - ROLLER/COMPACTOR
 Machine Id
66.10L [OKLAHOMA^102^HY - ROLLER/COMPACTOR]
 Component
Hydraulic System
 Fluid
MOBIL DELVAC MX 15W40 (--- GAL)

Sample Rating Trend



NORMAL



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: 4713 hrs)

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		WC0819843	WC0606256	WCCF4122
Sample Date	Client Info		07 Oct 2023	29 Jul 2021	05 Jan 2018
Machine Age	hrs	Client Info	4646	4380	3498
Oil Age	hrs	Client Info	266	1930	500
Oil Changed	Client Info		N/A	Changed	Not Chngd
Sample Status			NORMAL	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	3	2	4
Chromium	ppm	ASTM D5185m >10	<1	0	<1
Nickel	ppm	ASTM D5185m >10	0	0	<1
Titanium	ppm	ASTM D5185m	<1	<1	0
Silver	ppm	ASTM D5185m	0	<1	0
Aluminum	ppm	ASTM D5185m >10	2	<1	2
Lead	ppm	ASTM D5185m >10	<1	<1	2
Copper	ppm	ASTM D5185m >75	8	14	77
Tin	ppm	ASTM D5185m >10	0	<1	<1
Antimony	ppm	ASTM D5185m	---	0	0
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	90	95	68
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	20	41	45
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	543	502	725
Calcium	ppm	ASTM D5185m	1661	1733	1678
Phosphorus	ppm	ASTM D5185m	758	782	997
Zinc	ppm	ASTM D5185m	898	863	1036
Sulfur	ppm	ASTM D5185m	2924	2378	5094

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	7	6	6
Sodium	ppm	ASTM D5185m	3	3	6
Potassium	ppm	ASTM D5185m >20	1	0	2

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		12464	9260	14341
Particles >6µm	ASTM D7647	>2500	2052	283	2019
Particles >14µm	ASTM D7647	>640	100	3	125
Particles >21µm	ASTM D7647	>160	19	0	26
Particles >38µm	ASTM D7647	>40	1	0	2
Particles >71µm	ASTM D7647	>10	0	0	0
Oil Cleanliness	ISO 4406 (c)	>--/18/16	21/18/14	20/15/9	21/18/14

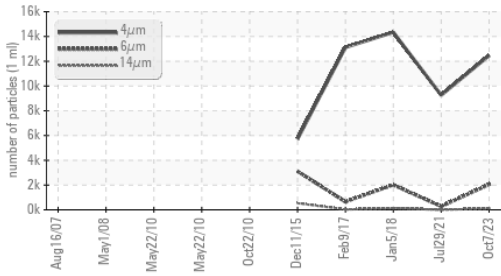
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.683	1.003	1.203

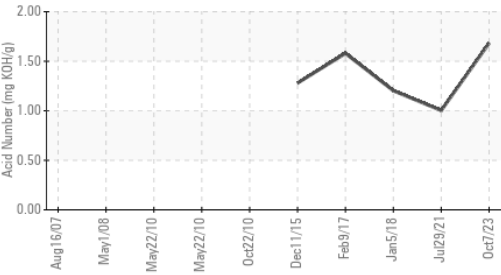


OIL ANALYSIS REPORT

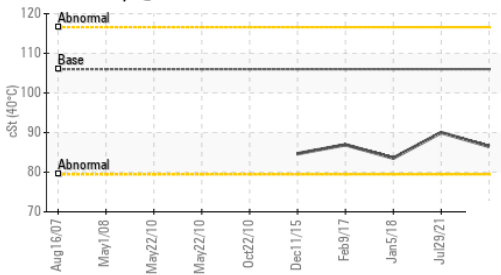
Particle Trend



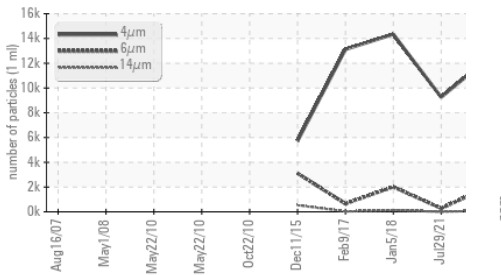
Acid Number



Viscosity @ 40°C



Particle Trend



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	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

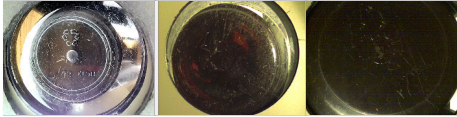
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 106	86.5	90.0	83.56

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

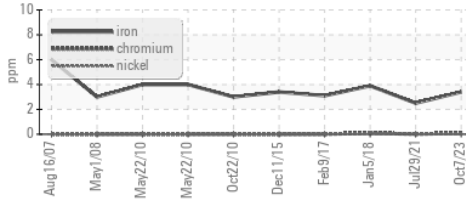


Bottom

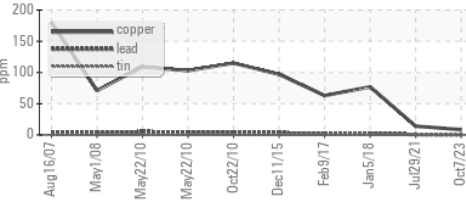


GRAPHS

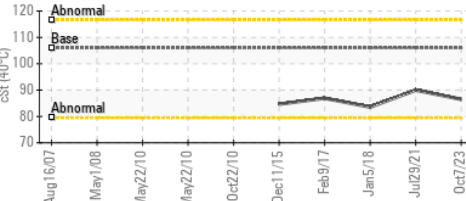
Ferrous Alloys



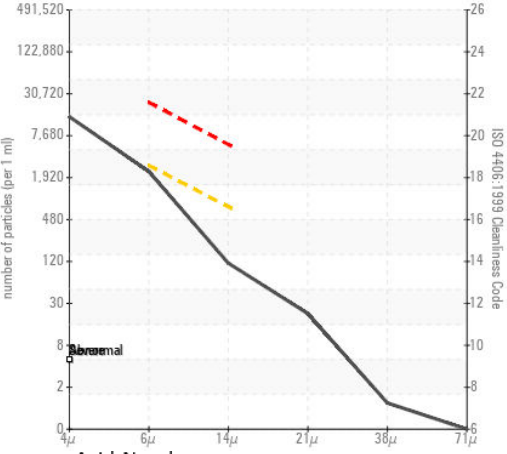
Non-ferrous Metals



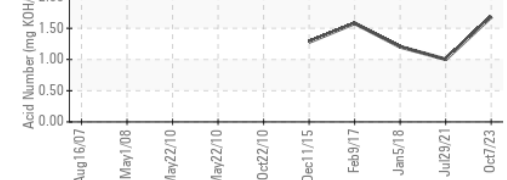
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0819843 **Received** : 16 Oct 2023
Lab Number : 05979567 **Diagnosed** : 17 Oct 2023
Unique Number : 10696862 **Diagnostician** : Don Baldrige
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)