

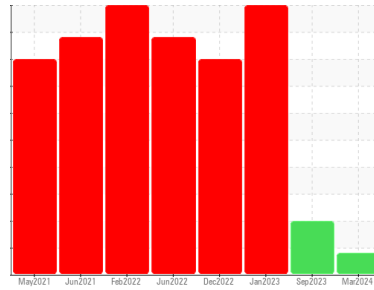


OIL ANALYSIS REPORT



Area
COLORADO/443/EG - LOADER
 Machine Id
46.94L [COLORADO^443^EG - LOADER]
 Component
Front Differential
 Fluid
MOBIL MOBILTRANS AST 30 (9 GAL)

Sample Rating Trend



DIAGNOSIS

- Recommendation**
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.
- Wear**
The copper level is abnormal. All other component wear rates are normal.
- Contamination**
There is no indication of any contamination in the oil.
- Fluid Condition**
The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0883955	WC0823053	WC0749895
Sample Date	Client Info		20 Mar 2024	28 Sep 2023	17 Jan 2023
Machine Age	hrs	Client Info	4776	4252	7087
Oil Age	hrs	Client Info	0	7087	7087
Oil Changed	Client Info		Changed	Not Changd	Not Changd
Sample Status			ABNORMAL	ABNORMAL	SEVERE

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>.2	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>500	292	322	120
Chromium	ppm	ASTM D5185m	>3	<1	<1	<1
Nickel	ppm	ASTM D5185m	>3	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>30	10	15	▲ 33
Lead	ppm	ASTM D5185m	>13	0	2	6
Copper	ppm	ASTM D5185m	>103	▲ 121	▲ 128	▲ 516
Tin	ppm	ASTM D5185m	>5	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		0	0	25
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		9	11	21
Magnesium	ppm	ASTM D5185m		8	12	9
Calcium	ppm	ASTM D5185m		3234	3161	2463
Phosphorus	ppm	ASTM D5185m		1201	1231	826
Zinc	ppm	ASTM D5185m		1057	1100	1171
Sulfur	ppm	ASTM D5185m		3305	3444	4340

CONTAMINANTS

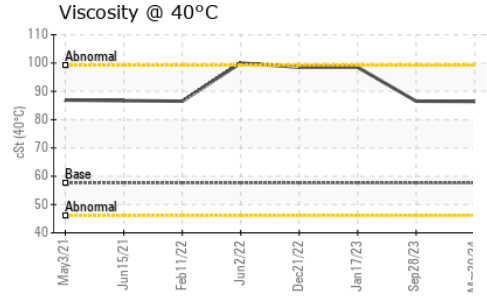
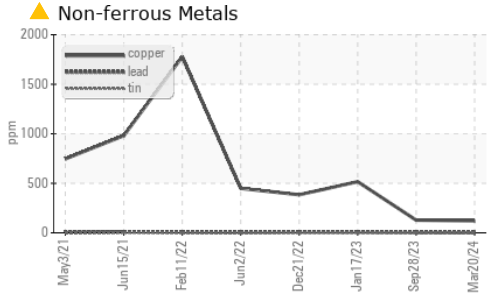
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>100	15	22	8
Sodium	ppm	ASTM D5185m		9	11	2
Potassium	ppm	ASTM D5185m	>20	3	0	0

VISUAL

	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	▲ HEAVY	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	▲ HEAVY
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	● HAZY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG



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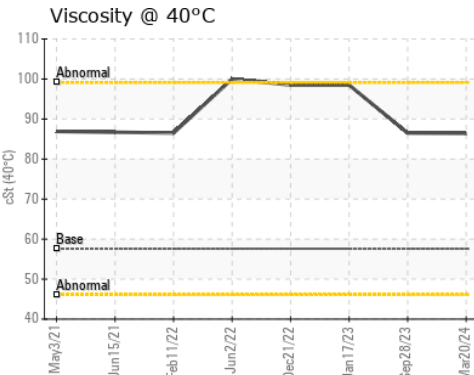
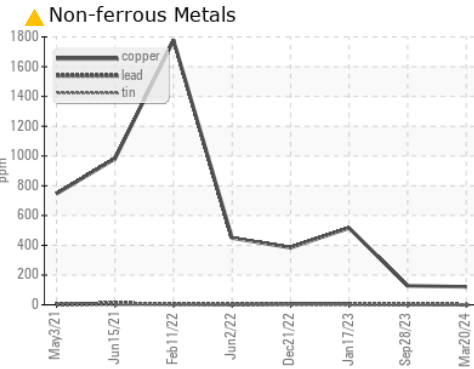
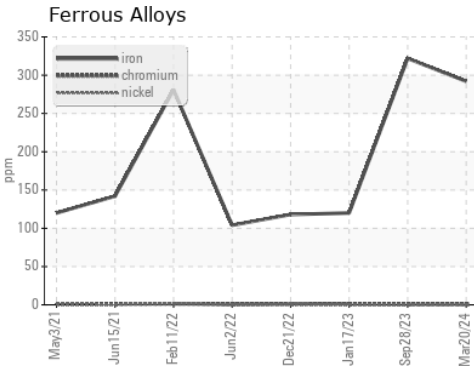


FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	57.6	86.4	86.5	98.5

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color			no image	no image	no image
Bottom			no image	no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0883955 **Received** : 08 Apr 2024
Lab Number : **06142570** **Tested** : 09 Apr 2024
Unique Number : 10967378 **Diagnosed** : 11 Apr 2024 - Jonathan Hester
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)