

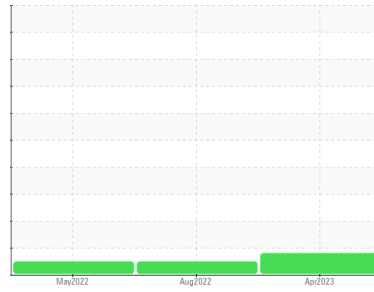


OIL ANALYSIS REPORT



Area
COLORADO/443
 Machine Id
46.104L [COLORADO^443]
 Component
Front Differential
 Fluid
MOBIL MOBILTRANS AST 30 (10 GAL)

Sample Rating Trend



WEAR



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

The iron level is abnormal. All other metal levels are typical for a new component breaking in.

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		WC0799140	WC0718187	WC0672273
Sample Date	Client Info		13 Apr 2023	18 Aug 2022	09 May 2022
Machine Age	hrs	Client Info	1547	916	532
Oil Age	hrs	Client Info	1547	916	532
Oil Changed	Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status			ABNORMAL	NORMAL	NORMAL

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	▲ 698	344	356
Chromium	ppm	ASTM D5185m >3	3	2	2
Nickel	ppm	ASTM D5185m >3	<1	<1	0
Titanium	ppm	ASTM D5185m >2	<1	<1	<1
Silver	ppm	ASTM D5185m >2	0	<1	0
Aluminum	ppm	ASTM D5185m >30	8	7	7
Lead	ppm	ASTM D5185m >13	<1	<1	<1
Copper	ppm	ASTM D5185m >103	70	61	63
Tin	ppm	ASTM D5185m >5	0	1	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	3	11	3
Barium	ppm	ASTM D5185m	0	4	0
Molybdenum	ppm	ASTM D5185m	23	8	10
Manganese	ppm	ASTM D5185m	12	6	8
Magnesium	ppm	ASTM D5185m	22	12	12
Calcium	ppm	ASTM D5185m	3015	2765	3176
Phosphorus	ppm	ASTM D5185m	1066	964	1144
Zinc	ppm	ASTM D5185m	1338	1203	1415
Sulfur	ppm	ASTM D5185m	5358	4631	4044

CONTAMINANTS

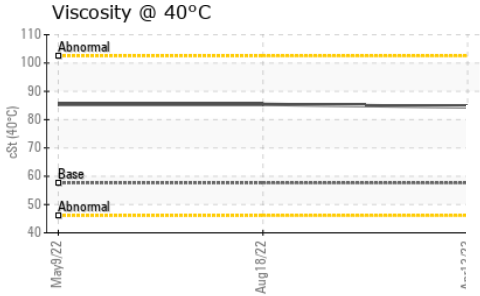
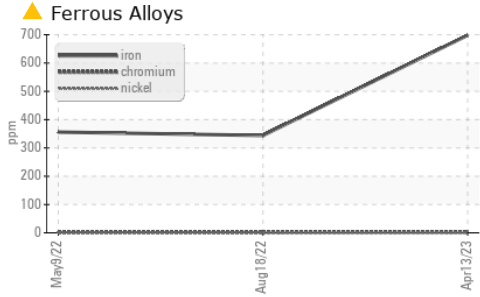
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >100	27	11	13
Sodium	ppm	ASTM D5185m	5	2	3
Potassium	ppm	ASTM D5185m >20	0	0	<1

VISUAL

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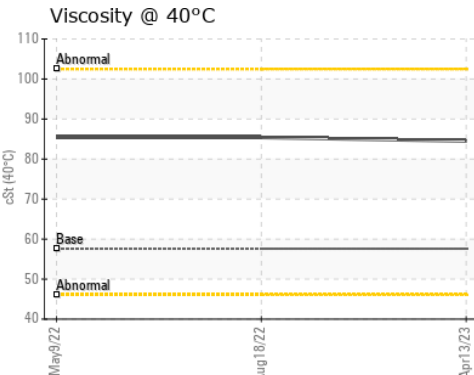
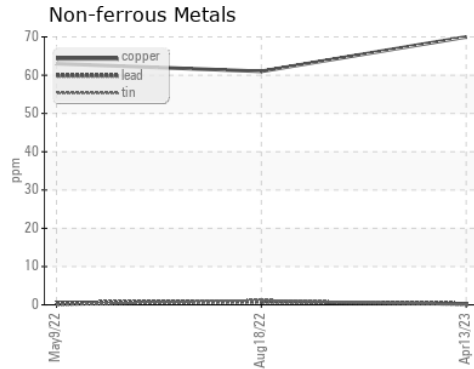
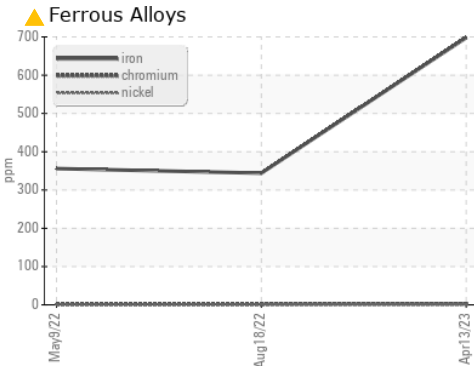


FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	57.6	84.5	85.4	85.4

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



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0799140 **Received** : 17 Apr 2023
Lab Number : 05821910 **Tested** : 18 Apr 2023
Unique Number : 10429993 **Diagnosed** : 19 Apr 2023 - 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)