

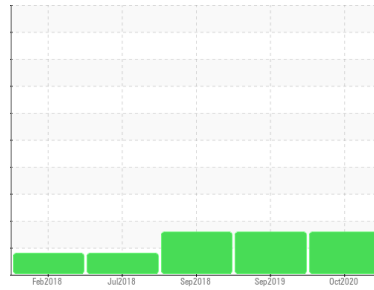


OIL ANALYSIS REPORT



Area
OKLAHOMA/102/EG - BACKHOE LOADER
 Machine Id
53.515L [OKLAHOMA^102^EG - BACKHOE LOADER]
 Component
Front Right Final Drive
 Fluid
MOBIL MOBILTRANS AST 30 (--- 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
 Bearing and/or bushing wear is indicated.

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		WC0511904	WC0384961	WCCF4335
Sample Date	Client Info		05 Oct 2020	10 Sep 2019	26 Sep 2018
Machine Age	hrs	Client Info	3888	3002	1952
Oil Age	hrs	Client Info	0	1000	1000
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

CONTAMINATION	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	NEG

WEAR METALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	71	85	79
Chromium	ppm	ASTM D5185m >10	1	1	1
Nickel	ppm	ASTM D5185m	<1	2	2
Titanium	ppm	ASTM D5185m	<1	<1	<1
Silver	ppm	ASTM D5185m	<1	0	0
Aluminum	ppm	ASTM D5185m >25	1	1	1
Lead	ppm	ASTM D5185m >25	12	15	13
Copper	ppm	ASTM D5185m >50	▲ 154	▲ 231	▲ 190
Tin	ppm	ASTM D5185m >10	▲ 17	▲ 23	▲ 17
Antimony	ppm	ASTM D5185m	0	0	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	<1	0	0

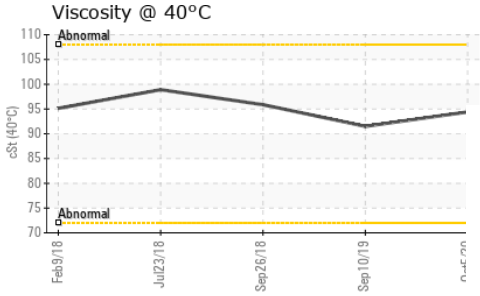
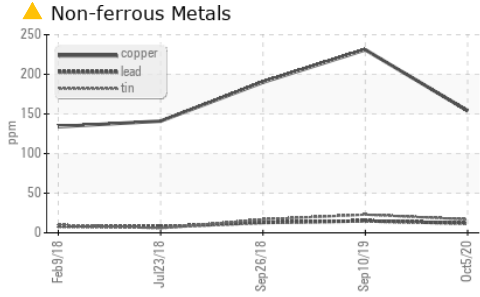
ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	44	30	24
Barium	ppm	ASTM D5185m	0	0	3
Molybdenum	ppm	ASTM D5185m	<1	<1	0
Manganese	ppm	ASTM D5185m	<1	<1	1
Magnesium	ppm	ASTM D5185m	14	11	14
Calcium	ppm	ASTM D5185m	3057	3060	2910
Phosphorus	ppm	ASTM D5185m	999	957	955
Zinc	ppm	ASTM D5185m	1222	1218	1127
Sulfur	ppm	ASTM D5185m	4689	4360	4446

CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	11	8	8
Sodium	ppm	ASTM D5185m	2	3	5
Potassium	ppm	ASTM D5185m >20	2	19	3

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	LIGHT	MODER
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 >0.2	NEG	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG



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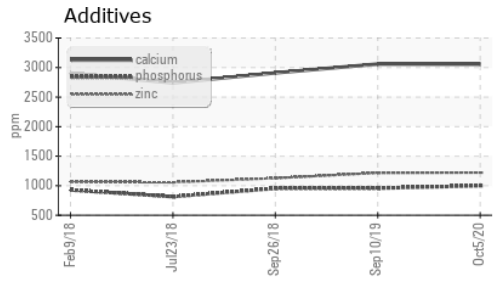
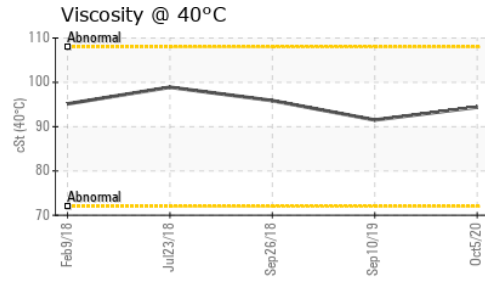
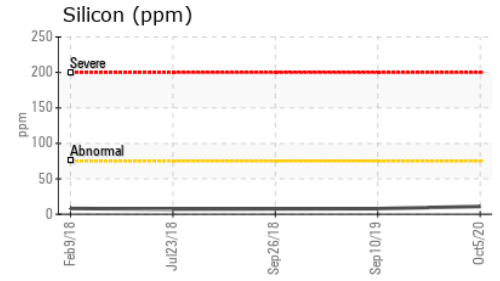
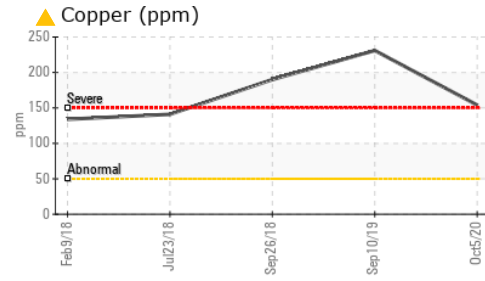
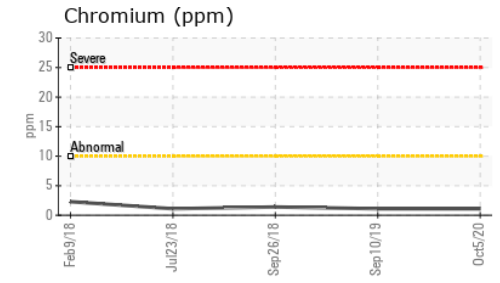
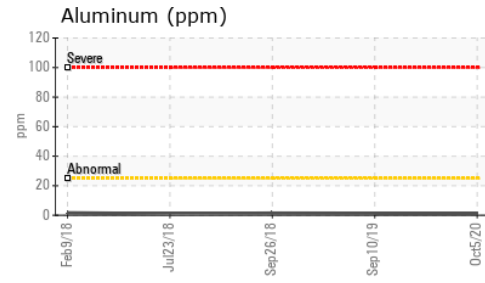
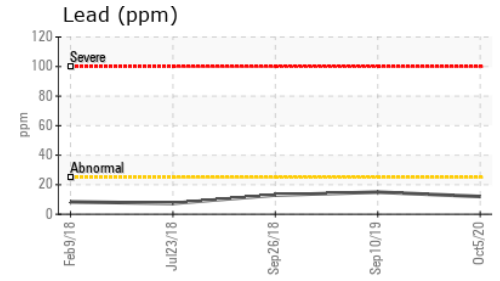
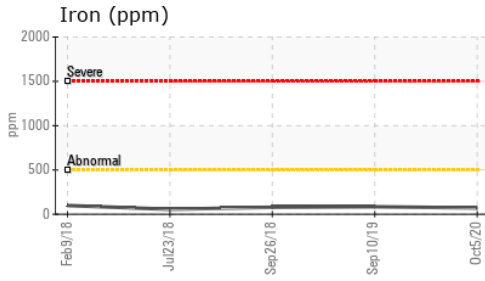


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	94.4	91.5	95.87

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. : WC0511904 **Received** : 09 Oct 2020
Lab Number : **05086775** **Tested** : 12 Oct 2020
Unique Number : 9207011 **Diagnosed** : 16 Oct 2020 - Jonathan Hester
Test Package : MOBCE

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)