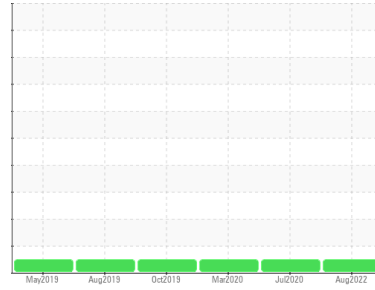




Machine Id
LIEBHERR LH50M 110225-1216
 Component
Front Left Wheel Hub
 Fluid
NOT GIVEN (--- GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All 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		LH05617412	LHMC163660	LHMC163992
Sample Date	Client Info		14 Aug 2022	14 Jul 2020	16 Mar 2020
Machine Age	hrs	Client Info	11011	7927	5627
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status			NORMAL	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >450	393	110	183
Chromium	ppm	ASTM D5185m >3	1	<1	<1
Nickel	ppm	ASTM D5185m >2	0	<1	<1
Titanium	ppm	ASTM D5185m	<1	0	<1
Silver	ppm	ASTM D5185m	<1	0	0
Aluminum	ppm	ASTM D5185m >10	3	1	2
Lead	ppm	ASTM D5185m >4	<1	<1	1
Copper	ppm	ASTM D5185m >80	33	21	20
Tin	ppm	ASTM D5185m >3	<1	0	0
Antimony	ppm	ASTM D5185m >10	---	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	23	66	90
Barium	ppm	ASTM D5185m	2	0	0
Molybdenum	ppm	ASTM D5185m	<1	0	<1
Manganese	ppm	ASTM D5185m	5	3	3
Magnesium	ppm	ASTM D5185m	2	2	2
Calcium	ppm	ASTM D5185m	50	65	68
Phosphorus	ppm	ASTM D5185m	1949	1149	1228
Zinc	ppm	ASTM D5185m	43	38	38
Sulfur	ppm	ASTM D5185m	24934	13749	23856

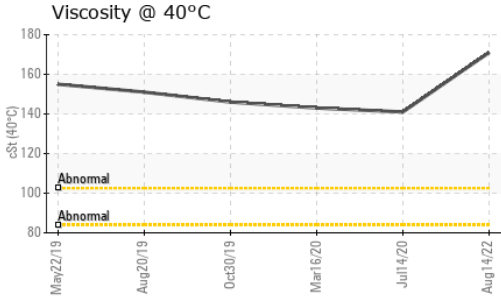
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >90	18	6	11
Sodium	ppm	ASTM D5185m	14	6	6
Potassium	ppm	ASTM D5185m >20	5	2	5

VISUAL

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

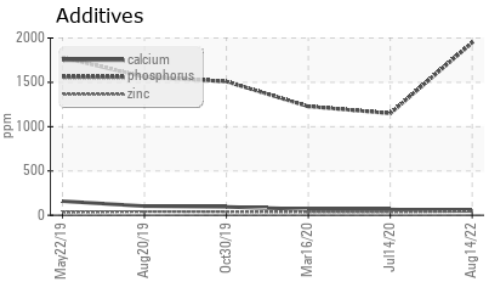
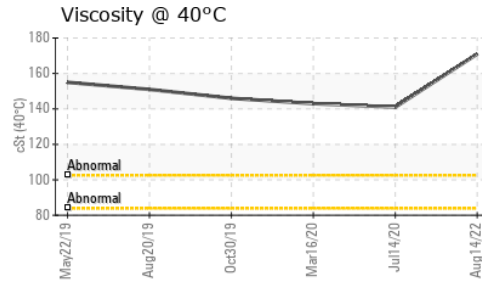
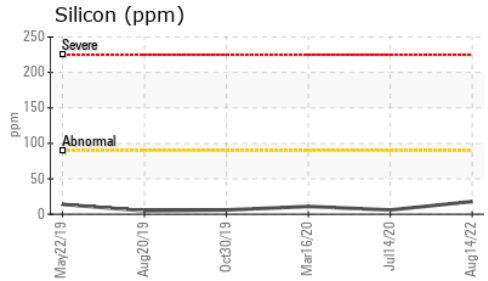
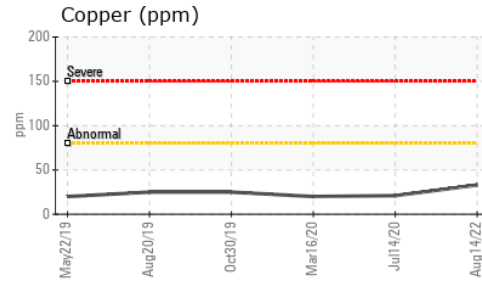
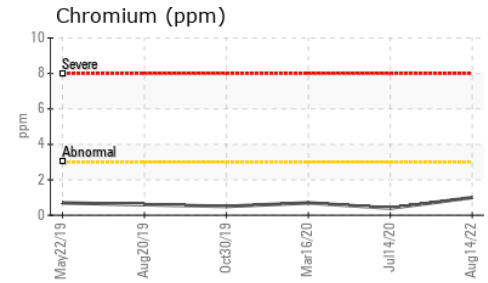
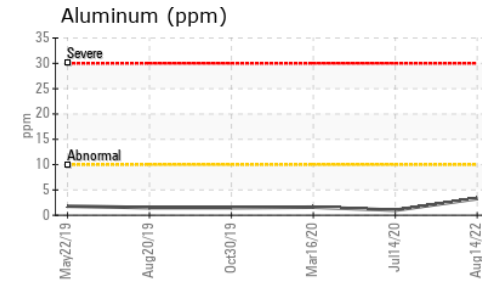
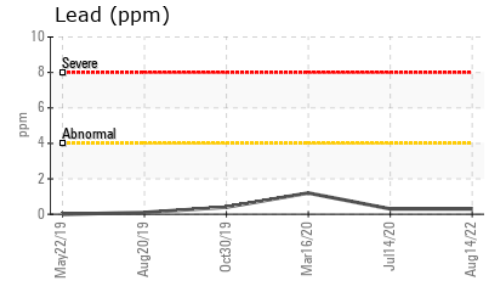
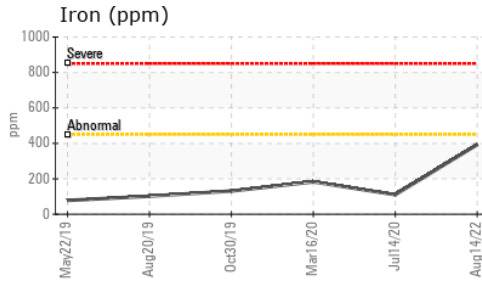
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		171	141	143

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LH05617412 **Received** : 15 Aug 2022
Lab Number : 05617412 **Diagnosed** : 17 Aug 2022
Unique Number : 10091906 **Diagnostician** : Don Baldrige
Test Package : MOB 1

VERSO CORP - QUINNESEC MILL
 W6791 US HWY 2
 QUINNESEC, MI
 US 49876
 Contact: ERIC LARSON
 eric.larson@versoco.com

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)

T:
F: