WEAR CONTAMINATION FLUID CONDITION

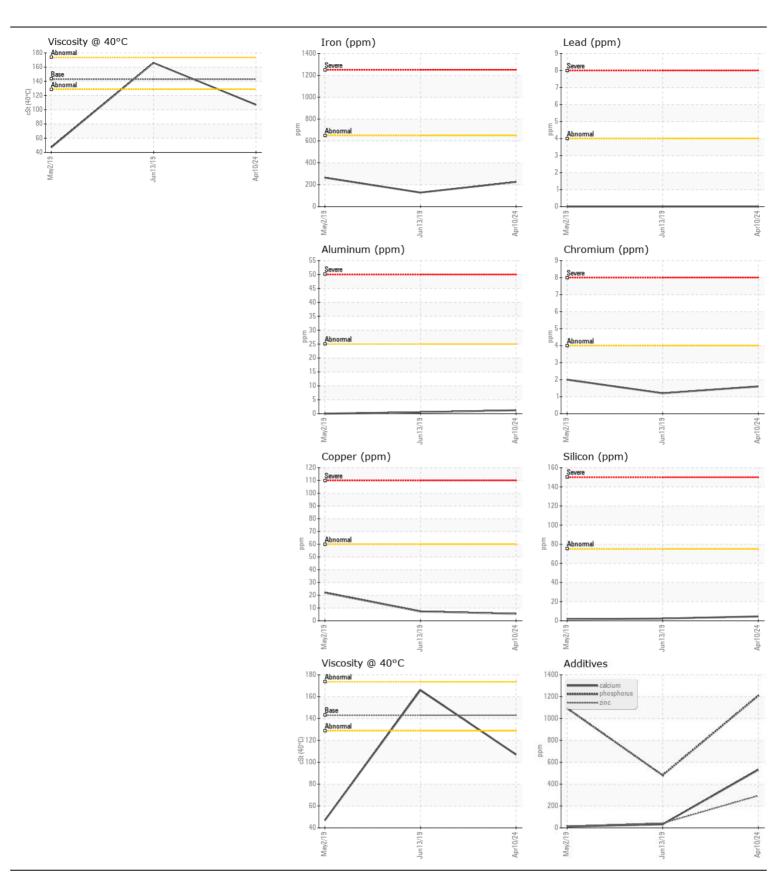
NORMAL NORMAL NORMAL



## Machine Id LIEBHERR LH60M 1217-94975

Front Right Wheel Hub

GEAR OIL SAE 80W90 ( G	AL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LHMC165912	LHMC119724	LHMC116178
	Sample Date		Client Info		10 Apr 2024	13 Jun 2019	02 May 2019
	Machine Age	hrs	Client Info		8268	5269	4802
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>650	225	128	264
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>4	2	1	2
	Nickel	ppm	ASTM D5185m	>4	0	1	<1
	Titanium	ppm	ASTM D5185m	>4	<1	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>25	1	<1	0
	Lead	ppm	ASTM D5185m	>4	0	0	0
	Copper	ppm	ASTM D5185m	>60	5	7	22
	Tin	ppm	ASTM D5185m	>4	0	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>75	4	2	2
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		8	7	4
	Water	PPIII	WC Method	>0.2	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	NONE	NONE	LIGHT
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>170	<1	2	6
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	400	141	3	6
	Barium	ppm	ASTM D5185m		3	77	279
	Molybdenum	ppm	ASTM D5185m	12	7	1	0
	Manganese	ppm	ASTM D5185m		1	2	4
	Magnesium	ppm	ASTM D5185m		80	8	0
	Calcium	ppm	ASTM D5185m		530	32	12
	Phosphorus	ppm	ASTM D5185m		1207	481	1094
	Zinc	ppm	ASTM D5185m		294	42	15
	Sulfur	ppm	ASTM D5185m		18530	13601	25879
	Visc @ 40°C	cSt	ASTM D445	143	107	166	46.9





Certificate L2367

Laboratory Sample No.

Lab Number : 06151347 Unique Number: 10981425 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : LHMC165912 : 16 Apr 2024 **Tested** : 18 Apr 2024

Diagnosed : 19 Apr 2024 - Sean Felton

AMERICAN STATE EQUIPMENT CO. (RENTAL TO ARCELOR MITTAL)

138 HWY 3217 LAPLACE, LA US 70068

Contact: SERVICE MANAGER

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)

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