WEAR CONTAMINATION FLUID CONDITION

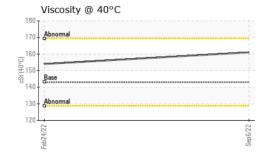
NORMAL NORMAL NORMAL

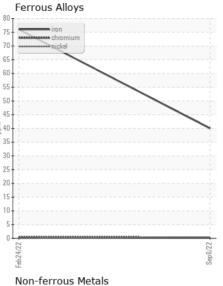


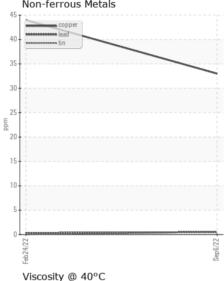
## LIEBHERR LH40M 1215-124371

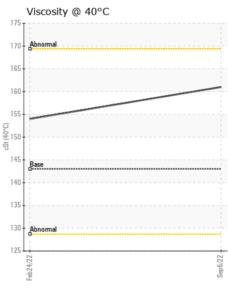
Component
Front Right Wheel Hub

GEAR OIL SAE 80W90 ( GA	AL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LH0236266	LH0213420	
resumple at the flext service interval to monitor.	Sample Date		Client Info		06 Sep 2022	24 Feb 2022	
	Machine Age	hrs	Client Info		1949	1033	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Not Changd	None	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>650	40	76	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>4	<1	<1	
	Nickel	ppm	ASTM D5185m	>4	<1	0	
	Titanium	ppm	ASTM D5185m	>4	0	<1	
	Silver	ppm	ASTM D5185m		<1	0	
	Aluminum	ppm	ASTM D5185m	>25	2	2	
	Lead	ppm	ASTM D5185m	>4	<1	<1	
	Copper	ppm	ASTM D5185m	>60	33	44	
	Tin	ppm	ASTM D5185m	>4	<1	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	MODER	LIGHT	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>75	6	13	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0	3	
	Water	1-1-	WC Method		NEG	NEG	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>170	10	10	
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	400	6	6	
	Barium	ppm	ASTM D5185m	200	1	0	
	Molybdenum	ppm	ASTM D5185m	12	1	2	
	Manganese	ppm	ASTM D5185m		2	3	
	Magnesium	ppm	ASTM D5185m		1	2	
	Calcium	ppm	ASTM D5185m		153	284	
	Dhoophorus	ppm	ASTM D5185m	1650	2075	2286	
	Phosphorus						
	Zinc	ppm	ASTM D5185m		65	105	
	•	ppm ppm cSt	ASTM D5185m ASTM D5185m ASTM D445	22500	65 25056 161	105 25561 154	











Certificate L2367

Laboratory Sample No.

: LH0236266 Lab Number : 05640529 Unique Number: 10130059 Test Package : CONST

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Sep 2022 **Tested** : 14 Sep 2022

Diagnosed : 15 Sep 2022 - Angela Borella 240 ARNDT STREET FOND DU LAC, WI

Contact: DAVE CASPER casperd@sadoff.com

**SADOFF IRON AND METAL** 

T:

\* - 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) US 54936

F: