

WEAR CONTAMINATION FLUID CONDITION

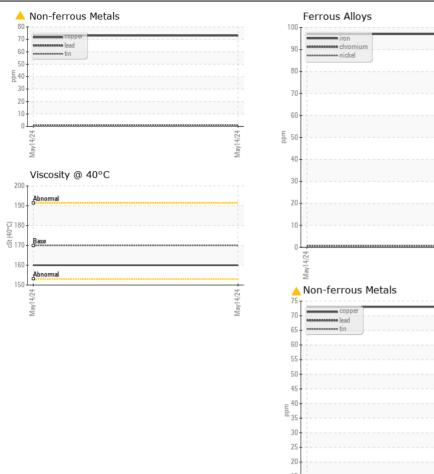
ABNORMAL NORMAL NORMAL

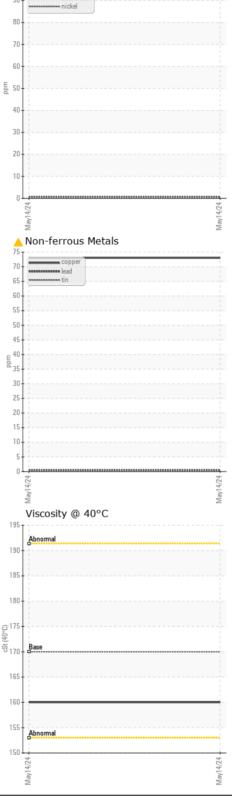


Machine Id LIEBHERR LH40M 1215-149851

Component Front Left Wheel Hub

Front Left Wheel Hub Fluid LIEBHERR GEAR BASIC 90 L	S (GAL)						
RECOMMENDATION No corrective action is recommended at this time. Resample at the next service interval to monitor.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LH0273629		
	Sample Date		Client Info		14 May 2024		
	Machine Age	hrs	Client Info		549		
	Oil Age	hrs	Client Info		549		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>650	97		
The copper level is abnormal. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m		<1 <1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	77	0		
	Aluminum	ppm	ASTM D5185m	>25	3		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		<u> </u>		
	Tin	ppm	ASTM D5185m		u <1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	\ 75	21		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2		
	Water	ррпп	WC Method	>0.2	NEG		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	LIGHT		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3		
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	0	5		
	Barium	ppm	ASTM D5185m		2		
	Molybdenum	ppm	ASTM D5185m		- <1		
	Manganese	ppm	ASTM D5185m		4		
	Magnesium	ppm	ASTM D5185m		2		
	Calcium	ppm	ASTM D5185m		63		
	Phosphorus	ppm	ASTM D5185m		1434		
	Zinc	ppm	ASTM D5185m		53		
	Sulfur	ppm	ASTM D5185m		19399		
	Visc @ 40°C	cSt	ASTM D445		160		
	-				<u> </u>		









Certificate L2367

Laboratory Sample No.

: LH0273629 Lab Number : 06215142 Unique Number : 11088006 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Jun 2024 **Tested** : 20 Jun 2024

Diagnosed : 21 Jun 2024 - Sean Felton STAINLESS STEL MIDWEST

2615 KY-146 LAGRANGE, KY US 40031

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)

T:

F: