WEAR CONTAMINATION **FLUID CONDITION**

SEVERE NORMAL NORMAL



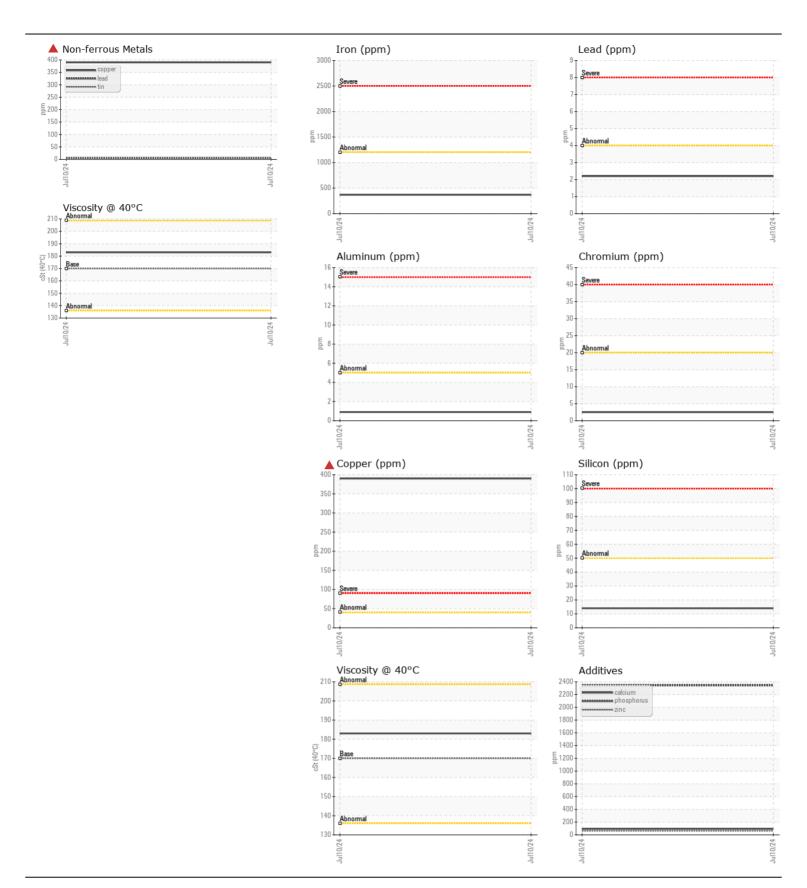
Machine Id **LIEBHERR L566 1758-71605**Component

Front Differential	20016/ CAL						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.	Cample Number		Client Info	LITTIO/ NOT	LH0277180		
	Sample Date		Client Info		10 Jul 2024		
	Machine Age	hrs	Client Info		2470		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		N/A		
	Sample Status				SEVERE		
WEAR	Iron	ppm	ASTM D5185m	>1200	368		
Bearing and/or bushing wear is indicated.	Chromium	ppm	ASTM D5185m	>20	2		
	Nickel	ppm	ASTM D5185m	>4	4		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		<1		
	Lead	ppm	ASTM D5185m		2		
	Copper	ppm	ASTM D5185m		▲ 390		
	Tin	ppm	ASTM D5185m	>4	<u>^</u> 6		
	Vanadium	ppm	ASTM D5185m	NONE	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	14		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1		
	Water		WC Method	>.2	NEG		
	Silt	scalar	*Visual	NONE	LIGHT		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		37		
The oil is no longer serviceable as a result of the abnormal and/or severe wear.	or Boron	ppm	ASTM D5185m	0	2		
	Barium	ppm	ASTM D5185m	0	0		
	Molybdenum	ppm	ASTM D5185m	0	0		
	Manganese	ppm	ASTM D5185m	0	28		
	Magnesium	ppm	ASTM D5185m	<1	3		
	Calcium	ppm	ASTM D5185m	<1	93		
	Phosphorus	ppm	ASTM D5185m		2344		
	Zinc	ppm	ASTM D5185m	<1	63		
	Sulfur	ppm	ASTM D5185m	23468	30783		

Visc @ 40°C

183

ASTM D445 170





Certificate L2367

Laboratory Sample No.

Lab Number : 06239652 Unique Number : 11128486

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LH0277180 Test Package : MOBCE

Received : 17 Jul 2024 **Tested** : 18 Jul 2024

Diagnosed : 19 Jul 2024 - Sean Felton **BARRETT/COLAS** 4800 SOLVAY RD JAMESVILLE, NY US 13078

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: