# LIEBHERR

**CONSTRUCTION EQUIPMENT** 

## LIEBHERR LH50M 1216-109503 - Rear Left Wheel Hub

Sample No: LHMC162801

Oil Type: GEAR OIL SAE 75W90

Camanda Nicos		111110400004	111110100000	
Sample Number		LHMC162801	LHMC162802	 
Sample Date		15 Sep 2023	23 Mar 2023	 
Machine Hours		6608	5400	 
Oil Hours		0	0	 
Oil Changed		Not Changd	Not Changd	 
Sample Status		NORMAL	NORMAL	 
OIL O	CONDITIO	N		
			0.450	
Visc @ 40°C	cSt	<b>149</b>	O 150	 
CON	<b>ITAMINA</b>	TION		
Silicon	ppm	O 14	O 19	 
Sodium	ppm	08	0 8	 
Potassium		O 2	O <1	 
Folassium	ppm	0 2	0 <1	 
-3004				
<b>(O)</b>				
<b>◎</b> WE/	AR META	LS		
WE		<b>LS</b>	O 195	 
Iron	ppm		① 195 ② 57	 
Iron Copper	ppm ppm	○ 119 ○ 58	O 57	
Iron Copper Lead	ppm ppm ppm	<ul><li>○ 119</li><li>○ 58</li><li>○ 0</li></ul>	<ul><li>○ 57</li><li>○ 0</li></ul>	 
Iron Copper Lead Tin	ppm ppm ppm ppm	<ul><li>○ 119</li><li>○ 58</li><li>○ 0</li><li>○ 0</li></ul>	<ul><li>57</li><li>0</li><li>0</li><li>0</li></ul>	 
Iron Copper Lead Tin Aluminum	ppm ppm ppm ppm	<ul><li>○ 119</li><li>○ 58</li><li>○ 0</li><li>○ 0</li><li>○ 1</li></ul>	0 57 0 0 0 0 0 3	 
Iron Copper Lead Tin Aluminum Chromium	ppm ppm ppm ppm ppm ppm	<ul><li>○ 119</li><li>○ 58</li><li>○ 0</li><li>○ 0</li><li>○ 1</li><li>○ &lt;1</li></ul>	0 57 0 0 0 0 0 3	 
Iron Copper Lead Tin Aluminum Chromium Molybdenum	ppm ppm ppm ppm ppm ppm ppm	<ul> <li>○ 119</li> <li>○ 58</li> <li>○ 0</li> <li>○ 0</li> <li>○ 1</li> <li>○ &lt;1</li> <li>○ &lt;1</li> </ul>	0 57 0 0 0 0 0 3 0 1 0 <1	 
Iron Copper Lead Tin Aluminum Chromium Molybdenum Nickel	ppm ppm ppm ppm ppm ppm ppm ppm ppm	<ul> <li>○ 119</li> <li>○ 58</li> <li>○ 0</li> <li>○ 0</li> <li>○ 1</li> <li>○ &lt;1</li> <li>○ &lt;1</li> <li>○ 0</li> </ul>	57 0 0 0 3 0 1 0 <1	 
Iron Copper Lead Tin Aluminum Chromium Molybdenum Nickel Titanium	ppm	<ul> <li>○ 119</li> <li>○ 58</li> <li>○ 0</li> <li>○ 0</li> <li>○ 1</li> <li>○ &lt;1</li> <li>○ &lt;1</li> <li>○ 0</li> <li>○ 0</li> </ul>	0 57 0 0 0 0 3 0 1 0 <1 0 <1	 
Iron Copper Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver	ppm	<ul> <li>○ 119</li> <li>○ 58</li> <li>○ 0</li> <li>○ 0</li> <li>○ 1</li> <li>○ &lt;1</li> <li>○ &lt;1</li> <li>○ 0</li> <li>○ 0</li> <li>○ 0</li> <li>○ 0</li> </ul>	57 0 0 0 3 0 1 0 <1 0 <1 0 <1 0 <1	 
Iron Copper Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese	ppm	<ul> <li>○ 119</li> <li>○ 58</li> <li>○ 0</li> <li>○ 0</li> <li>○ 1</li> <li>○ &lt;1</li> <li>○ &lt;1</li> <li>○ 0</li> <li>○ 0</li> <li>○ 0</li> <li>○ 0</li> <li>○ 3</li> </ul>	57 0 0 0 0 3 01 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0	 
Iron Copper Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese Vanadium	ppm	<ul> <li>○ 119</li> <li>○ 58</li> <li>○ 0</li> <li>○ 0</li> <li>○ 1</li> <li>○ &lt;1</li> <li>○ &lt;1</li> <li>○ 0</li> <li>○ 0</li> <li>○ 0</li> <li>○ 0</li> </ul>	57 0 0 0 3 0 1 0 <1 0 <1 0 <1 0 <1	 
Iron Copper Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese Vanadium	ppm	<ul> <li>○ 119</li> <li>○ 58</li> <li>○ 0</li> <li>○ 0</li> <li>○ 1</li> <li>○ &lt;1</li> <li>○ &lt;1</li> <li>○ 0</li> <li>○ 0</li> <li>○ 0</li> <li>○ 0</li> <li>○ 3</li> </ul>	57 0 0 0 0 3 01 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0	 
Iron Copper Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese Vanadium	ppm	<ul> <li>○ 119</li> <li>○ 58</li> <li>○ 0</li> <li>○ 0</li> <li>○ 1</li> <li>○ &lt;1</li> <li>○ &lt;1</li> <li>○ 0</li> <li>○ 0</li> <li>○ 0</li> <li>○ 0</li> <li>○ 3</li> </ul>	57 0 0 0 0 3 01 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0	 
Iron Copper Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese Vanadium	ppm	<ul> <li>□ 119</li> <li>□ 58</li> <li>□ 0</li> <li>□ 0</li> <li>□ 1</li> <li>□ &lt;1</li> <li>□ 0</li> <li>□ 0</li> <li>□ 0</li> <li>□ 0</li> <li>□ 0</li> <li>□ 3</li> <li>□ 0</li> </ul>	57 0 0 0 0 3 01 0<1 0<1 0<1 0 4 0	 
Iron Copper Lead Tin Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese Vanadium	ppm	<ul> <li>○ 119</li> <li>○ 58</li> <li>○ 0</li> <li>○ 0</li> <li>○ 1</li> <li>○ &lt;1</li> <li>○ &lt;1</li> <li>○ 0</li> <li>○ 0</li> <li>○ 0</li> <li>○ 0</li> <li>○ 3</li> </ul>	57 0 0 0 0 3 01 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0	

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#### **AHLSTROM-MUNKSJO NA SPECIALTY**

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Contact: JOE SEITZ

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T: F:

#### Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot:AHLKAUUnique No:10660481Signed:Don BaldridgeReport Date:26 Sep 2023

**2114** 

0

**2** 

Phosphorus

Barium

Boron

ppm

ppm

ppm

## LIEBHERR







## **GRAPHS**

