# LIEBHERR





## LIEBHERR LH40 121161 - Front Right Wheel Hub

Sample No: LH

Oil Type: LIEBHERR GEAR BASIC 90 LS

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Sam	ple Inforn	nation		
Sample Number		LH	LH0072847	 
Sample Date		27 Mar 2024	18 Dec 2020	 
Machine Hours		14060	1105	 
Oil Hours		0	0	 
Oil Changed		Changed	Changed	 
Sample Status		SEVERE	ABNORMAL	 
<u> </u>		<b>0</b> 2.72.112		
Oilc	ondition			
Visc @ 40°C	cSt	127	O 103	 
a.L.				
Cont	aminatio	n		
Water	%	NEG	0.145	 
Silicon	ppm	<b>33</b>	<b>4</b>	 
Sodium	ppm	<b>13</b>	O <1	 
Potassium	ppm	<b>2</b>	O <1	 
-				
(O) Woo	ır Metals			
	ir Meiais			
PQ		<b>O</b> 390		 
Iron	ppm	<b>1024</b>	O 31	 
Copper	ppm	<b>13</b>	O 15	 
Lead	ppm	<b>○</b> <1	O <1	 
Tin	ppm	0	0	 
Aluminum	ppm	<b>6</b>	O 1	 
Chromium	ppm	<b>3</b>	O <1	 
Molybdenum	ppm	<b>0</b>	O 0	 
Nickel	ppm	<b>0</b> <1	O <1	 
Titanium	ppm	2	0	 
Silver	ppm	0	<1	 
Manganese	ppm	<b>7</b>	O 1	 
Vanadium	ppm	0	<1	 
Add	itives			
Calcium	ppm	75	O 2	 
Magnesium	ppm	<b>16</b>	0 <1	 
Zinc	ppm	O 114	O 13	 
Phosphorus	ppm	O 1994	O 318	 
	10.10		_	
Barium	ppm	<b>()</b> <1	0	 

#### LIEBHERR CANADA LTEE

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#### Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Iron ppm levels are severe. PQ levels are abnormal. Aluminum ppm levels are abnormal. Gear wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring. There is a moderate concentration of dirt present in the oil. High amount of ingressed dirt has caused abrasive wear to the component. The oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot:LBADOLUnique No:5763476Signed:Kevin MarsonReport Date:22 Apr 2024

CONSTRUCTION EQUIPMENT





### **Graphs**

