## LIEBHERR





### [[YORKTOWN MATERIALS]] LIEBHERR R946 045303-1491 - Right Fil

Sample No: LH0267611

Oil Type: LIEBHERR GEAR BASIC 90 LS

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U SAM	<b>IPLE INFO</b>	ORMATION		
Sample Number		LH0267611	 	
Sample Date		21 Sep 2023	 	
Machine Hours		3480	 	
Oil Hours		3480	 	
Oil Changed		Changed	 	
Sample Status		SEVERE	 	
Sample Status		SEVERE	 	
OIL	ONDITION	ON		
Visc @ 40°C	cSt	<b>322</b>	 	
-1				
CON	TAMINA	ATION		
Silicon	ppm	<b>7909</b>	 	
Sodium	ppm	<b>62</b>	 	
Potassium	ppm	<b>222</b>	 	
- Marie				
(O) WEA	R META	16		
Iron	ppm	<b>15175</b>	 	
Copper	ppm	<b>10</b>	 	
Lead	ppm	<b>4</b>	 	
Tin	ppm	<b>2</b>	 	
Aluminum	ppm	<b>815</b>	 	
Chromium	ppm	<b>120</b>	 	
Molybdenum	ppm	<b>23</b>	 	
Nickel	ppm	<b>77</b>	 	
Titanium	ppm	<b>O</b> 126	 	
Silver	ppm	<1	 	
Manganese	ppm	<b>137</b>	 	
Vanadium	ppm	7	 	
ADD	ITIVES			
	IIIAE2			
Calcium	ppm	<b>170</b>	 	
Magnesium	ppm	<b>60</b>	 	
Zinc	ppm	<b>8</b>	 	
Phosphorus	ppm	<b>2302</b>	 	
Barium	ppm	<b>7</b>	 	



#### LIEBHERR EQUIPMENT SOURCE

4100 CHESTNUT AVENUE NEWPORT NEWS, VA US 23607

Contact: LUKE APPLEBY Lucas.Appleby@liebherr.com

T:

F: (757)298-8700

#### Diagnosis

We advise that you check all areas where dirt can enter the system. Oil and filter 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. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

Depot:LIEBHERRUSUnique No:10684317Signed:Angela BorellaReport Date:10 Oct 2023

**6** 

ppm

Boron

# CONSTRUCTION EQUIPMENT





#### **GRAPHS**

