# LIEBHERR

**CONSTRUCTION EQUIPMENT** 



### [[BLOOMINGTON IRON]] LIEBHERR A904 030904-710 - Swin

Sample No: LH0267727

Oil Type: LIEBHERR GEAR BASIC 90 LS

Oil Changed Sample Status         Not Changd SEVERE	_				
Sample Number	Sam	ple Infor	mation		
Sample Date    17 Mar 2024				 	
Machine Hours 0 0	•			 	
Oil Changed	•			 	
Sample Status         SEVERE	Oil Hours			 	
Sample Status         SEVERE				 	
Oil Condition           Visc @ 40°C         cst         165              Contamination           Water         %         0.639              Silicon         ppm         9               Sodium         ppm         1  -				 	
Visc @ 40°C	<u> </u>				
Contamination  Water % 0.639	Oil Co	ondition			
Contamination  Water % 0.639	Visc @ 40°C	cSt	<b>165</b>	 	
Water       %       ○ 0.639			0 111		
Water       %       ○ 0.639					
Silicon	Cont	aminatio	on		
Sodium   ppm   0 1	Water	%	_	 	
Potassium   ppm   O < 1	Silicon	ppm	<b>9</b>	 	
Wear Metals           Iron         ppm         ● 2059              Copper         ppm         ● 212              Lead         ppm         ● 2              Inin         ppm         ● 7              Aluminum         ppm         ● 1              Chromium         ppm         ● 13              Molybdenum         ppm         ● 0              Nickel         ppm         ● 1              Titanium         ppm         ● 0              Manganese         ppm         ● 14              Vanadium         ppm         ● 0              Additives               Calcium         ppm         ● 2             Magnesium         ppm         ● 81	Sodium	ppm	<b>1</b>	 	
Iron	Potassium	ppm	<b>○</b> <1	 	
Copper       ppm       ○ 212	wed				
Lead       ppm       ② 2 <td< td=""><td></td><td></td><td>-</td><td></td><td></td></td<>			-		
Tin ppm 7 Aluminum ppm				 	
Aluminum					
Chromium ppm				 	
Molybdenum ppm 0 0 Nickel ppm 0 1 Silver ppm 0				 	
Nickel         ppm         1 </td <td></td> <td></td> <td>•</td> <td> </td> <td></td>			•	 	
Titanium ppm 0 Silver ppm 0	-				
Silver ppm 0 Manganese ppm 0 14				 	
Manganese         ppm         14		ppm	-	 	
Vanadium         ppm         0               Additives           Calcium         ppm         34              Magnesium         ppm         2              Zinc         ppm         81		ppm		 	
Additives           Calcium         ppm         34              Magnesium         ppm         2              Zinc         ppm         81	Manganese		_	 	
Calcium         ppm         34              Magnesium         ppm         2              Zinc         ppm         81	Vanadium	ppm	0	 	
Magnesium         ppm         2                Zinc         ppm         81	Addi	tives			
Zinc ppm <b>© 81</b>	Calcium	ppm	34	 	
	Magnesium	ppm	<b>2</b>	 	
Phosphorus ppm <b>()</b> 1948	Zinc	ppm	<b>81</b>	 	
	Phosphorus		<b>1948</b>	 	



#### **RECO EQUIPMENT INC**

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#### Diagnosis

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron level is severe. Gear wear is indicated. There is a moderate concentration of water present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: LEC0082
Unique No: 10996464
Signed: Don Baldridge
Report Date: 29 Apr 2024

**3** 

**16** 

ppm

ppm

Barium

Boron

# LIEBHERR







### **Graphs**

