## LIEBHERR

### **CONSTRUCTION EQUIPMENT**



Sample No: LH0273813

Oil Type: GEAR OIL SAE 80W90

<b>5</b>						
SAMI	PLE INFOR	MATION				
Sample Number		LH0273813	LH0220713			
Sample Date		02 Feb 2024	29 Sep 2022			
Machine Hours		574	425			
Oil Hours		0	0			
Oil Changed		Changed	N/A			
Sample Status		NORMAL	NORMAL			
OIL CONDITION						
Visc @ 40°C	cSt	<b>145</b>	<b>198</b>			

CONTAMINATION							
Water	%	NEG	NEG				
Silicon	ppm	<b>0</b> <1	O <1				
Sodium	ppm	<b>0</b>	<b>4</b>				
Potassium	ppm	<b>0</b> <1	O <1		***		

(O) WE				
WEA	IR META	LS		
Iron	ppm	<b>59</b>	O 164	 
Copper	ppm	<b>○</b> <1	O <1	 
Lead	ppm	<b>()</b> <1	O 0	 
Tin	ppm	<b>()</b> <1	O <1	 
Aluminum	ppm	<b>1</b>	O <1	 
Chromium	ppm	<b>1</b>	O 2	 
Molybdenum	ppm	<b>()</b> <1	O 0	 
Nickel	ppm	<b>○</b> <1	0	 
Titanium	ppm	<1	0	 
Silver	ppm	<1	0	 
Manganese	ppm	<b>1</b>	<b>3</b>	 
Vanadium	ppm	<1	0	 

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ADDITIVES					
Calcium	ppm	<b>10</b>	<b>6</b>		
Magnesium	ppm	<b>1</b>	0		
Zinc	ppm	<b>10</b>	0 8		
Phosphorus	ppm	<b>859</b>	<b>1488</b>		
Barium	ppm	<b>0</b> <1	O 12		
Boron	ppm	<b>2</b>	O <1		





#### AMERICAN STATE EQUIPMENT CO.

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#### 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:LEC0008Unique No:10884191Signed:Don BaldridgeReport Date:19 Feb 2024

# CONSTRUCTION EQUIPMENT





#### **GRAPHS**

