## LIEBHERR

**CONSTRUCTION EQUIPMENT** 

### **LIEBHERR LH110 1227-155752 - Swing Drive**

Sample No: LH0280575 Oil Type: SAE 30W

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SAMPLEINFORMATION						
Sample Number	LH0280575	LH0280564				
Sample Date	20 Feb 2024	11 Jan 2024				
Machine Hours	1022	507				
Oil Hours	0	0				
Oil Changed	Changed	Not Changd				
Sample Status	ATTENTION	NORMAL				
<b>A</b>						

OILC	ONDITION			
Visc @ 40°C	cSt	<b>179</b>	<b>180</b>	 
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CON	ITAMIN	ATION			
Water	%	NEG	NEG	 	
Silicon	ppm	<b>7</b>	O 5	 	
Sodium	ppm	<b>3</b>	<b>4</b>	 	
Potassium	ppm	<b>○</b> <1	O 2	 	

WE!	AR META	LS		
Iron	ppm	<b>297</b>	<b>203</b>	 
Copper	ppm	<b>119</b>	<b>O</b> 67	 
Lead	ppm	<b>1</b>	O <1	 
Tin	ppm	<b>8</b>	O 5	 
Aluminum	ppm	<b>1</b>	O 1	 
Chromium	ppm	<b>○</b> <1	O <1	 
Molybdenum	ppm	<b>0</b>	0	 
Nickel	ppm	<b>0</b>	O <1	 
Titanium	ppm	<b>0</b>	0	 
Silver	ppm	0	0	 
Manganese	ppm	<b>2</b>	2	 
Vanadium	ppm	<1	0	 

ADDI	TIVES			
Calcium	ppm	<b>119</b>	46	 
Magnesium	ppm	<u> </u>	2	 
Zinc	ppm	<b>39</b>	16	 
Phosphorus	ppm	<b>2188</b>	1879	 
Barium	ppm	<b>3</b>	4	 
Boron	ppm	<b>6</b>	5	 



KINDER MORGAN 4301 IVERSON TRINITY, AL US 35601 Contact: CHIP OAKES

T: (256)350-0006

F: (256)350-0006

#### Diagnosis

The oil change at the time of sampling has been noted. 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 oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Depot:KINTRIUnique No:10898746Signed:Don BaldridgeReport Date:28 Feb 2024

# LIEBHERR







#### **GRAPHS**

