## LIEBHERR

## **CONSTRUCTION EQUIPMENT**

### LIEBHERR LH110 1227-155752 - Diesel Engine

Sample No: LH0280558

Oil Type: HDMO SYN BLEND 15W40 CK4

SAMPLE INFORMATION						
Sample Number	LH0280558					
Sample Date	28 Dec 2023					
Machine Hours	277					
Oil Hours	0					
Oil Changed	Not Changd					
Sample Status	ATTENTION					
A						

OIL CONDITION							
Visc @ 100°C	cSt	<b>12.0</b>					
Base Number (BN)	mg KOH/g	<b>6.2</b>					
Oxidation (PA)	%	197					
a.L.							

CONTAMINATION					
Water	%	NEG			
Soot %	%	<b>0.1</b>			
Nitration (PA)	%	87			
Sulfation (PA)	%	107			
Glycol	%	NEG			
Fuel	%	<b>1.3</b>			
Silicon	ppm	<b>10</b>			
Sodium	ppm	<b>3</b>			
Potassium	ppm	<b>2</b>			

WEAL	R METALS			
Iron	ppm	<b>4</b>	 	
Copper	ppm	<b>12</b>	 	
Lead	ppm	<b>2</b>	 	
Tin	ppm	<b>1</b>	 	
Aluminum	ppm	<b>2</b>	 	
Chromium	ppm	<b>()</b> <1	 	
Molybdenum	ppm	<b>43</b>	 	
Nickel	ppm	<b>O</b> <1	 	
Titanium	ppm	<1	 	
Silver	ppm	<b>0</b>	 	
Manganese	ppm	<1	 	
Vanadium	ppm	0	 	

ADDITIVES					
Calcium	ppm	<b>1200</b>			
Magnesium	ppm	<b>818</b>			
Zinc	ppm	<b>801</b>			
Phosphorus	ppm	<b>691</b>			
Barium	ppm	<b>28</b>			
Boron	ppm	<b>125</b>			



#### KINDER MORGAN 4301 IVERSON TRINITY, AL US 35601

Contact: CHIP OAKES

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#### Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: KINTRI
Unique No: 10847996
Signed: Don Baldridge
Report Date: 29 Jan 2024

# LIEBHERR







#### **GRAPHS**

