



# LIEBHERR CR11000 98260 - Diesel Engine

96.4

132

Sample No: LH0268609

#### **Oil Type: SAE 5W30**

# **SAMPLE INFORMATION**

Sample Number	LH0268609	 	
Sample Date	10 Nov 2023	 	
Machine Hours	2335	 	
Oil Hours	0	 	
Oil Changed	Not Changd	 	
Sample Status	SEVERE	 	

**OIL CONDITION** 

# Base Number (BN) mg KOH/g

Oxidation (PA) %

الملح	

CONT	AMINATIO	N		
Water	%	0 10.5	 	
Soot %	%	0.4	 	
Nitration (PA)	%	343	 	
Sulfation (PA)	%	0	 	
Glycol	%	0.20	 	
Fuel	%	<1.0	 	
Silicon	ppm	0 18	 	
Sodium	ppm	<u> </u>	 	
Potassium	ppm	<mark>()</mark> 611	 	

## WEAR METALS

Iron	ppm	24	 	
Copper	ppm	0 18	 	
Lead	ppm	<b>O</b> 32	 	
Tin	ppm	<b>3</b>	 	
Aluminum	ppm	01	 	
Chromium	ppm	<b>○</b> <1	 	
Molybdenum	ppm	0 11	 	
Nickel	ppm	<b>○</b> <1	 	
Titanium	ppm	0 🔘	 	
Silver	ppm	<b>○</b> <1	 	
Manganese	ppm	2	 	
Vanadium	ppm	<1	 	

<b>FIVES</b>				
ppm	0 1208			
ppm	0 124			
ppm	0 857			
ppm	0734			
ppm	<b>3</b>			
ppm	0 111			
	ppm ppm ppm ppm ppm	ppm 1208   ppm 124   ppm 857   ppm 734   ppm 3	ppm   1208      ppm   124      ppm   857      ppm   734      ppm   3	ppm   1208       ppm   124       ppm   857       ppm   734       ppm   3

#### LIEBHERR CRANE INC

7075 BENNINGTON ST HOUSTON, TX US 77028 Contact: JOSHUA NAVARRO JOSHUA.NAVARRO@LIEBHERR.COM T: F: (713)636-4039

### Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. Please note that there was too much water present in the oil to perform a viscosity test.Bearing and/or bushing wear is indicated. Sodium and/or potassium levels are high. Test for glycol is positive. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: LIEHOU Unique No: 10804353 Signed: Jonathan Hester **Report Date:** 29 Dec 2023

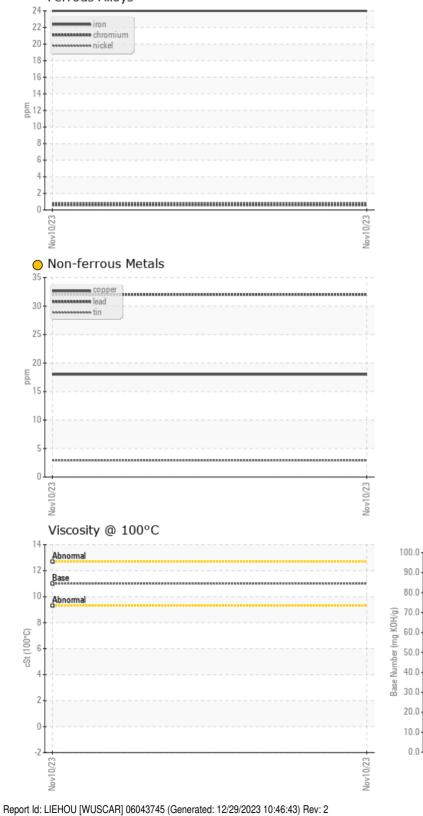




#### Ferrous Alloys

**GRAPHS** 

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Base Number

Nov10/23

Nov10/23

Contact/Location: JOSHUA NAVARRO - LIEHOU