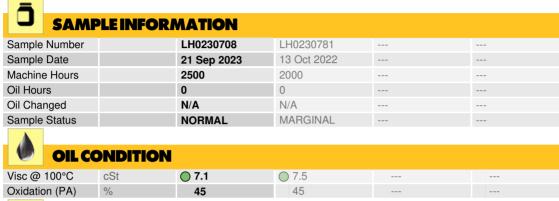
## LIEBHERR

### **CONSTRUCTION EQUIPMENT**

### 00679 - Diesel Engine

Sample No: LH0230708
Oil Type: SAE 0W20



CONTAMINATION										
Soot %	%	<b>0</b> 0	O 0							
Nitration (PA)	%	68	55							
Sulfation (PA)	%	47	48							
Glycol	%	NEG	NEG							
Fuel	%	<1.0	<b>2</b> .7							
Silicon	ppm	<b>8</b>	O 6							
Sodium	ppm	<b>2</b>	O 2							
Potassium	ppm	<b>1</b>	O <1							

(O) NA/E A				
WEA	R METAL	5		
Iron	ppm	<b>1</b>	O 1	 
Copper	ppm	<b>○</b> <1	O <1	 
Lead	ppm	<b>0</b>	O <1	 
Tin	ppm	<b>4</b>	O 4	 
Aluminum	ppm	<b>1</b>	O 1	 
Chromium	ppm	<b></b> <1	0	 
Molybdenum	ppm	<b>67</b>	<b>66</b>	 
Nickel	ppm	<b>0</b>	0	 
Titanium	ppm	<b>0</b>	<b>0</b>	 
Silver	ppm	<b></b> <1	0	 
Manganese	ppm	<b>0</b>	O <1	 
Vanadium	ppm	0	0	 

ADDITIVES							
Calcium	ppm	<b>1170</b>	O 1192				
Magnesium	ppm	<b>499</b>	O 497				
Zinc	ppm	<b>721</b>	O 730				
Phosphorus	ppm	<b>642</b>	○ 697				
Barium	ppm	<b>0</b>	0				
Boron	ppm	<b>157</b>	O 172				





#### LIEBHERR CANADA LTD. - REMAN

1015 SUTTON DRIVE BURLINGTON, ON CA L7L 5Z8

Cantact Martaza Ma

Contact: Morteza Mahmoudi morteza.mahmoudi@liebherr.com

T: (905)319-9222 F: (905)319-6622

#### Diagnosis

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot:REMANUnique No:5645950Signed:Wes DavisReport Date:25 Sep 2023

# LIEBHERR

CONSTRUCTION EQUIPMENT





#### **GRAPHS**

