## LIEBHERR

### **CONSTRUCTION EQUIPMENT**



SAMPLEINFORMATION						
Sample Number	LH0244841					
Sample Date	14 Dec 2023					
Machine Hours	3388					
Oil Hours	0					
Oil Changed	Changed					
Sample Status	NORMAL					
<b>A</b>						

OIL CO	NDITION			
Visc @ 100°C	cSt	<b>13.4</b>	 	
Base Number (BN)	mg KOH/g	<b>6.0</b>	 	
Oxidation (PA)	%	75	 	

CONTAMINATION						
Water	%	NEG				
Soot %	%	<b>0.7</b>				
Nitration (PA)	%	78				
Sulfation (PA)	%	61				
Glycol	%	NEG				
Fuel	%	<1.0				
Silicon	ppm	<b>6</b>				
Sodium	ppm	<b>7</b>				
Potassium	nnm	02				

WEAR METALS           Iron         ppm         ○ 27 <th><b>(</b>)</th> <th></th> <th></th> <th></th> <th></th>	<b>(</b> )				
Copper         ppm         2 <th>WE!</th> <th>AR META</th> <th>LS</th> <th></th> <th></th>	WE!	AR META	LS		
Lead       ppm       0	Iron	ppm	<b>27</b>	 	
Tin         ppm         0	Copper	ppm	<b>2</b>	 	
Aluminum       ppm       2            Chromium       ppm       <1	Lead	ppm	<b>0</b>	 	
Chromium         ppm         <1	Tin	ppm	<b>0</b>	 	
Molybdenum         ppm         82              Nickel         ppm         0              Titanium         ppm         0              Silver         ppm         0              Manganese         ppm         <1	Aluminum	ppm	<b>2</b>	 	
Nickel         ppm         0 <td>Chromium</td> <td>ppm</td> <td><b>()</b> &lt;1</td> <td> </td> <td></td>	Chromium	ppm	<b>()</b> <1	 	
Titanium         ppm         0              Silver         ppm         0               Manganese         ppm         0 < 1	Molybdenum	ppm	<b>82</b>	 	
Silver         ppm         ⊙ 0              Manganese         ppm         ⊙ <1	Nickel	ppm	<b>0</b>	 	
Manganese ppm O<1	Titanium	ppm	<b>0</b>	 	
	Silver	ppm	<b>0</b>	 	
Vanadium ppm 0	Manganese	ppm	<b>()</b> <1	 	
The state of the s	Vanadium	ppm	0	 	

	Plan			
0				
ADE	DITIVES			
Calcium	ppm	<b>2300</b>	 	
Magnesium	ppm	<b>508</b>	 	
Zinc	ppm	1615	 	
Phosphorus	ppm	<b>1149</b>	 	
Barium	ppm	<b>0</b>	 	
Boron	ppm	<b>o</b> 56	 	



OSCAR WINSKI CO. INC 2407 N. 9TH STREET LAFAYETTE, IN US 47904 Contact: JAYSON FRAZIER frazierj@oscarwinski.com

F: x:

#### Diagnosis

T: (765)376-1230

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

Please specify the component make and model with your next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot:OSCLAFUnique No:10807192Signed:Wes DavisReport Date:28 Dec 2023

# LIEBHERR







#### **GRAPHS**





