

Sample Status		SEVERE							
	OIL CC	OIL CONDITION CONDITION							
Visc @	100°C	cSt	<u> </u>						
Oxidatio	n (PA)	%	99						

CONTAMINATION							
- CONTAMINATION							
Water	%	NEG					
Soot %	%	<b>0.7</b>					
Nitration (PA)	%	74					
Sulfation (PA)	%	45					
Glycol	%	>.70					
Fuel	%	<1.0					
Silicon	ppm	<b>20</b>					
Sodium	ppm	<b>43</b>					
Potassium	ppm	<b>O</b> 169					

O WE				
₩EA	AR META	LS		
Iron	ppm	<b>74</b>	 	
Copper	ppm	<b>5</b>	 	
Lead	ppm	<b>1</b>	 	
Tin	ppm	<b>0</b>	 	
Aluminum	ppm	<b>1</b>	 	
Chromium	ppm	<b>O</b> <1	 	
Molybdenum	ppm	<b>17</b>	 	
Nickel	ppm	<b>0</b>	 	
Titanium	ppm	<b>51</b>	 	
Silver	ppm	<b>0</b>	 	
Manganese	ppm	<b>2</b>	 	
Vanadium	ppm	0	 	

variadium	ppm	U					
ADDITIVES							
Calcium	ppm	<b>1357</b>					
Magnesium	ppm	<b>402</b>					
Zinc	ppm	<b>1089</b>					
Phosphorus	ppm	<b>774</b>					
Barium	ppm	64					
Boron	ppm	<b>46</b>					

### LIEBHERR CANADA LTD. - REMAN

1015 SUTTON DRIVE BURLINGTON, ON

CA L7L 5Z8

Contact: Morteza Mahmoudi morteza.mahmoudi@liebherr.com

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

### Diagnosis

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition. Metal levels are typical for a new component breaking in. Test for glycol is positive. There is a high concentration of glycol present in the oil. There is a moderate concentration of water present in the oil. Free water present. Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The oil is no longer serviceable due to the presence of contaminants.

Depot: REMAN Unique No: 5748410 Signed: Kevin Marson **Report Date:** 21 Mar 2024

# LIEBHERR

## CONSTRUCTION EQUIPMENT





### **GRAPHS**

