## LIEBHERR

**CONSTRUCTION EQUIPMENT** 

### [[575873]] LIEBHERR HS8100 184908 - Hydraulic System

Sample No: LH0277702

Oil Type: PETRO CANADA HYDREX AW 46

5 Sample Information							
Sample Number	LH0277702	LH0251527	LH0230704				
Sample Date	12 Oct 2023	23 Jan 2023	22 Jul 2022				
Machine Hours	12289	10946	10063				
Oil Hours	0	0	0				
Oil Changed	N/A	Not Changd	N/A				
Sample Status	NORMAL	NORMAL	NORMAL				



Tillsonburg Ready-Mix Inc. 10 Elm Street

Tillsonburg, ON CA N4G 0A7

Contact: Service Manager

T: F:

	011					
	OII Col	ndition				
isc @	40°C	cSt	38.6	38.6	38.3	
-						

Conta	mination				
Water	%	NEG	NEG	NEG	
Particles >4µm		<b>2799</b>	O 9668	O 9719	
Particles >6µm		<b>647</b>	O 1447	O 1653	
Particles >14μm		<b>47</b>	○ 31	<b>59</b>	
ISO 4406:1999 (c)		19/17/13	20/18/12	20/18/13	
Silicon	ppm	<b>1</b>	O <1	O <1	
Sodium	ppm	<b>1</b>	O <1	O <1	
Potassium	ppm	<b>0</b>	0	0	

#### Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill.
Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within ISO 32 range, advise investigate. The condition of the oil is acceptable for the time in service.

Wed	ar Metals	5			
Iron	ppm	<b>13</b>	O 12	<b>6</b>	
Copper	ppm	<b>3</b>	<b>3</b>	02	
Lead	ppm	<b>()</b> <1	<b></b> <1	O <1	
Tin	ppm	<b>0</b>	O 0	O 0	
Aluminum	ppm	<b>0</b>	<b>0</b>	O 0	
Chromium	ppm	<b>0</b>	<b>O</b> 0	0	
Molybdenum	ppm	<b>0</b>	<b>0</b>	0	
Nickel	ppm	<b>0</b>	<b>O</b> <1	0	
Titanium	ppm	0	0	0	
Silver	ppm	<1	0	0	
Manganese	ppm	<b>0</b>	<1 <1	0	
Vanadium	ppm	0	0	0	

Additives								
Calcium	ppm	<b>144</b>	152	150				
Magnesium	ppm	<b>0</b> <1	<b></b> <1	1				
Zinc	ppm	<b>600</b>	O 575	566				
Phosphorus	ppm	<b>541</b>	O 575	516				
Barium	ppm	<b>0</b> <1	0	0				
Boron	ppm	<b>3</b>	O 4	3				

Depot:TIL10TILUnique No:5658732Signed:Kevin MarsonReport Date:18 Oct 2023

# CONSTRUCTION EQUIPMENT





#### **Graphs**

