## LIEBHERR

**CONSTRUCTION EQUIPMENT** 

### [(358362)] LIEBHERR R930 052244-1716 - Diesel Engine

Sample No: LH0281064

Oil Type: PETRO CANADA 10W40

SAMPLEINF	ORMATION		
Sample Number	LH0281064	LH0225005	 
Sample Date	19 Feb 2024	18 May 2023	 
Machine Hours	1457	1024	 
Oil Hours	0	0	 
Oil Changed	Changed	Changed	 
Sample Status	NORMAL	ABNORMAL	 
A			

OILC	ONDIT	ION			
Visc @ 100°C	cSt	<b>13.4</b>	<u> </u>	 	
Oxidation (PA)	%	61	84	 	
-4					

<b>**</b>						
CONTAMINATION						
Water	%	NEG	NEG			
Soot %	%	<b>0</b>	O 0			
Nitration (PA)	%	57	78			
Sulfation (PA)	%	53	59			
Glycol	%	NEG	NEG			
Fuel	%	<1.0	O 1.1			
Silicon	ppm	<b>6</b>	<b>9</b>			
Sodium	ppm	<b>1</b>	<b>4</b>			
Potassium	ppm	<b>()</b> <1	O <1			

<b>(</b> )		_		
WEA	R METAI	.5		
Iron	ppm	<b>4</b>	O 6	 
Copper	ppm	<b>16</b>	O 115	 
Lead	ppm	<1	<b>4</b>	 
Tin	ppm	<b></b> <1	O <1	 
Aluminum	ppm	<b>2</b>	0 2	 
Chromium	ppm	<b>0</b>	O <1	 
Molybdenum	ppm	<b>58</b>	<b>58</b>	 
Nickel	ppm	<b>○</b> <1	0	 
Titanium	ppm	0	<1	 
Silver	ppm	<b>0</b>	O 0	 
Manganese	ppm	<b>0</b>	O <1	 
Vanadium	ppm	0	0	 

ADD	ITIVES			
Calcium	ppm	<b>1035</b>	O 916	 
Magnesium	ppm	<b>970</b>	O 1128	 
Zinc	ppm	<b>1158</b>	O 1232	 
Phosphorus	ppm	<b>1009</b>	O 1108	 
Barium	ppm	<b></b> <1	O 2	 
Boron	ppm	<b>3</b>	<b>45</b>	 



### HAYSHAKERS BOBCAT SERVICES

501 761 HWY LESLIEVILLE, AB CA TOM 1H0

Contact: Service Manager

T: F:

#### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot:HAYLESUnique No:5733696Signed:Wes DavisReport Date:20 Feb 2024

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CONSTRUCTION EQUIPMENT





#### **GRAPHS**

