LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR R924 054969-1487 - Diesel Engine

Sample No: LH0277737

Sodium

Potassium

Oil Type: PETRO CANADA 10W40

Ō SAMI	PLE INF	ORMATION					
Sample Number		LH0277737	LH0246999				
Sample Date		17 Oct 2023	26 Jul 2023				
Machine Hours		2060	1606				
Oil Hours		0	0				
Oil Changed		Changed	Changed				
Sample Status		NORMAL	NORMAL				
OIL CO	ONDITI	ON (13.4)	O 13.2				
Oxidation (PA)	%	63	64				
CONTAMINATION							
Soot %	%	0 0	0				
Nitration (PA)	%	60	67				
Sulfation (PA)	%	54	58				
Glycol	%	NEG	NEG				
Fuel	%	<1.0	<1.0				
Silicon	ppm	13	28				

WEAI	R METALS			
		0.40	0.10	
Iron	ppm	13	O 18	
Copper	ppm	1	0 2	
Lead	ppm	 <1	O <1	
Tin	ppm	0	O 0	
Aluminum	ppm	1	1	
Chromium	ppm	0	O <1	
Molybdenum	ppm	61	5 9	
Nickel	ppm	○ <1	O 0	
Titanium	ppm	0	0	
Silver	ppm	O <1	O 0	
Manganese	ppm	0	O <1	
Vanadium	ppm	0	0	

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ADDITIVES						
Calcium	ppm	1064	O 1086			
Magnesium	ppm	994	1021			
Zinc	ppm	1212	O 1224			
Phosphorus	ppm	1002	O 1050			
Barium	ppm	() <1	O 0			
Boron	ppm	4	O 5			





CLOUTHIER VENTURES LTD.

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Contact: Travis Bennett tbennett@clouthierconst.com

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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: CLOPEM
Unique No: 5671950
Signed: Kevin Marson
Report Date: 08 Nov 2023

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0

ppm

ppm

LIEBHERR







GRAPHS

