LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR R966 048797 - Diesel Engine

Sample No: LH

Oil Type: DIESEL ENGINE OIL SAE 10W30

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Sam	ple Info	rmation		
Sample Number		LH	LH	
Sample Date		03 May 2024	17 Apr 2023	
Machine Hours		1618	1611	
Oil Hours		0	0	
Oil Changed		N/A	N/A	
Sample Status		NORMAL	NORMAL	
Oil Co	onditio	1		
Visc @ 100°C	cSt	11.7	O 11.8	
Oxidation (PA)	%	68	68	
Cont	aminati	ion		
Water	%	NEG	NEG	
Soot %	%	0	O 0	
Nitration (PA)	%	56	53	
Sulfation (PA)	%	54	54	
Glycol	%	NEG	NEG	
Fuel	%	0.0	<1.0	
Silicon	ppm	5	0 8	
Sodium	ppm	4	4	
Potassium	ppm	1	O 1	

O					
Wear	Metals				
Iron	ppm	6	5		
Copper	ppm	5	5		
Lead	ppm	0	O <1		
Tin	ppm	0	O 0		
Aluminum	ppm	1	1		
Chromium	ppm	0	0		
Molybdenum	ppm	55	56		
Nickel	ppm	0	O 0		
Titanium	ppm	0	<1		
Silver	ppm	0	0		
Manganese	ppm	○ <1	O <1		
Vanadium	ppm	0	0	***	

Add	itives			
Calcium	ppm	950	1012	
Magnesium	ppm	961	1041	
Zinc	ppm	1109	O 1151	
Phosphorus	ppm	955	O 1092	
Barium	ppm	0 <1	O <1	
Boron	ppm	58	O 60	





Liebherr Canada

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Diagnosis

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

Depot:LIERICUnique No:5774963Signed:Kevin MarsonReport Date:08 May 2024

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Graphs

