CONSTRUCTION EQUIPMENT

[[SMITH EXPORT]] LIEBHERR LH50M 120739-1216 - Diesel Eng

Sample No: LH0254758

Oil Type:

Oxidation (PA)

Manganese

Vanadium

ppm

ppm

SAMPLE INFORMATION

○ 11.7
○ 7.0

37

{unknown}

Sample Number	LH0254758	 	
Sample Date	01 Mar 2024	 	
Machine Hours	8222	 	
Oil Hours	220	 	
Oil Changed	N/A	 	
Sample Status	ABNORMAL	 	

OIL CONDITION					
Visc @ 100°C	cSt				
Base Number (BN)	mg KOH/g				

%

1 in 1				
CONT	AMINATIO	ON		
Water	%	NEG	 	
Soot %	%	0.1	 	
Nitration (PA)	%	56	 	
Sulfation (PA)	%	45	 	
Glycol	%	NEG	 	
Fuel	%	5.3	 	
Silicon	ppm	1 0	 	
Sodium	ppm	0	 	
Potassium	ppm	0	 	

(• WEAR METALS Iron ppm 2 Copper 0 ppm Lead 0 ppm Tin ppm 0 Aluminum ○ <1 ppm Chromium 0 ppm Molybdenum ppm ○ <1 Nickel 0 ppm Titanium 0 ppm Silver 0 🔘 ppm

ADDITIVES						
Calcium	ppm	2155				
Magnesium	ppm	6 3				
Zinc	ppm	0 1026				
Phosphorus	ppm	0 862				
Barium	ppm	01				
Boron	ppm	8				



LIEBHERR EQUIPMENT SOURCE

6940 OCONNOR CAVE HANOVER, MD US 21076 Contact: PETE JARVIS peter.jarvis@liebherr.com T: (410)379-3994 F: (410)379-3998

Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Report Id: LIEBHERRMD [WUSCAR] 06109123 (Generated: 03/08/2024 14:29:58) Rev: 1

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Contact/Location: PETE JARVIS - LIEBHERRMD

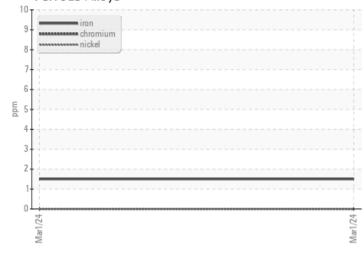




Ferrous Alloys

GRAPHS

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Non-ferrous Metals

