

LIEBHERR LH50 138442 - Diesel Engine

Sample No: LH0278794

Oil Type: DIESEL ENGINE OIL SAE 30

SAMPLE INFORMATION

Sample Number	LH0278794	LH0281416	
Sample Date	21 Jan 2024	07 Dec 2023	
Machine Hours	6157	5641	
Oil Hours	0	0	
Oil Changed	Changed	Changed	
Sample Status	NORMAL	NORMAL	

OIL CONDITION @ 40°C cSt

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Visc @ 40°C	cSt	87.2		
Visc @ 100°C	cSt		0 12.4	
Oxidation (PA)	%		76	

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	CONTAMINATION						
Water	%	NEG	NEG				
Soot %	%		0				
Nitration (PA)	%		72				
Sulfation (PA)	%		57				
Glycol	%	NEG	NEG				
Fuel	%	<1.0	<1.0				
Silicon	ppm	06	07				
Sodium	ppm	01	0 2				
Potassium	ppm	06	03				

\odot WEAR METALS Iron ppm 3 $\bigcirc 5$ Copper 02 ppm 2 Lead **○** <1 ppm Tin 0 ppm 0 Aluminum 2 2 ppm Chromium 0 ○ <1 ppm Molybdenum 0 58 0 58 ppm Nickel ○ <1 0 <1 ppm Titanium 0 🔘 $\bigcirc 0$ ppm Silver 0 0 <1 ppm Manganese ppm 0 0 Vanadium ppm 0 0

ADDITIVES					
Calcium	ppm	0 1114	0 1157		
Magnesium	ppm	944	○ 950		
Zinc	ppm	0 1188	0 1218		
Phosphorus	ppm	0 1008	977		
Barium	ppm	0	○ <1		
Boron	ppm	3	0 2		

LIEBHERR CANADA LTD.

1015 SUTTON DRIVE BURLINGTON, ON CA L7L 5Z8 Contact: Joseph Rodgers joseph.rodgers@liebherr.com T: F: (905)319-6622

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:LIEMISUnique No:5711444Signed:Wes DavisReport Date:24 Jan 2024

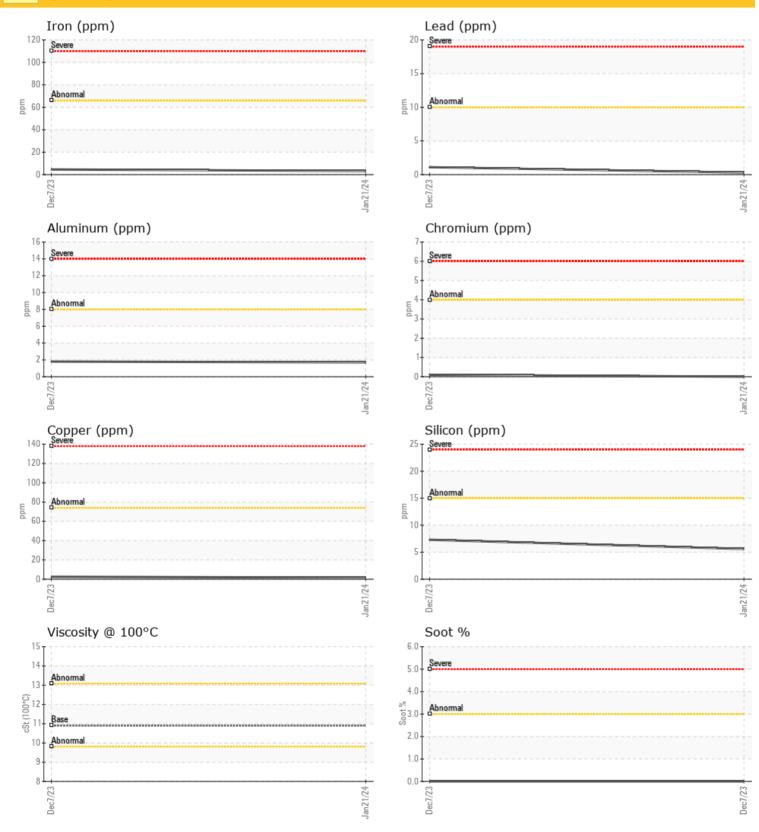
Contact/Location: Joseph Rodgers - LIEMIS





GRAPHS

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