CONSTRUCTION EQUIPMENT

LIEBHERR LH50 109502-1216 - Diesel Engine

0 13.1

Sample No: LH0258805

Oil Type: LIEBHERR MOTOROIL 5W30

SAMPLE INFORMATION

Sample Number	LH0258805	LHMC149770	
Sample Date	04 Mar 2024	26 Feb 2019	
Machine Hours	22219	827	
Oil Hours	0	827	
Oil Changed	Not Changd	Changed	
Sample Status	NORMAL	ABNORMAL	

0 11.72

185

Visc @ 100°C cSt

Base Number (BN)	mg KOH/g	0 10.1
Oxidation (PA)	%	79

Т	
	CONTAMINATION

Water	%	NEG	NEG			
Soot %	%	0	0.1			
Nitration (PA)	%	45	87			
Sulfation (PA)	%	59	102			
Glycol	%	NEG	NEG			
Fuel	%	<1.0	<1.0			
Silicon	ppm	0 11	9			
Sodium	ppm	○ <1	0 2			
Potassium	ppm	0 2	01			

WEAD METAL

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Iron	ppm	05	13	
Copper	ppm	01	4 32	
Lead	ppm	0 2	0 4	
Tin	ppm	01	0 (
Aluminum	ppm	03	2	
Chromium	ppm	<mark></mark> <1	○ <1	
Molybdenum	ppm	0 45	0 47	
Nickel	ppm	○ <1	0 (
Titanium	ppm	<1	0	
Silver	ppm	0 (<1	
Manganese	ppm	○ <1	0 1	
Vanadium	maa	<1	0	

	TIVES			
Calcium	ppm	0 1822	0 1396	
Magnesium	ppm	514	913	
Zinc	ppm	967	876	
Phosphorus	ppm	0 816	796	
Barium	ppm	01	38	
Boron	ppm	0 79	0 115	





AMERICAN STATE EQUIPMENT CO.

2400 NORTH 14TH AVENUE WAUSAU, WI US 54401 Contact: CHRIS BARTNIK cbartnik@amstate.com T: (715)675-6900 F: (715)675-9748

Diagnosis

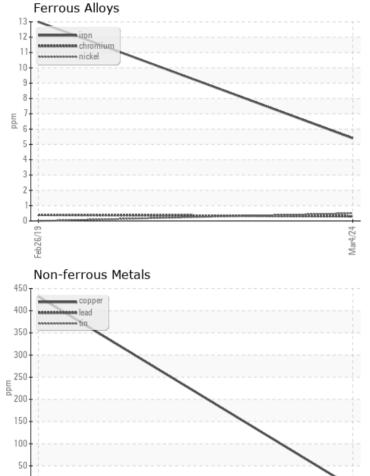
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Depot:LEC0008Unique No:10942638Signed:Don BaldridgeReport Date:28 Mar 2024



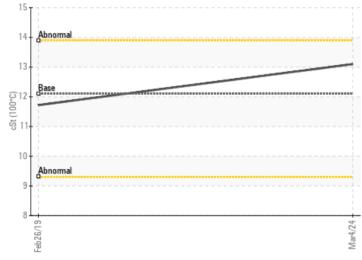




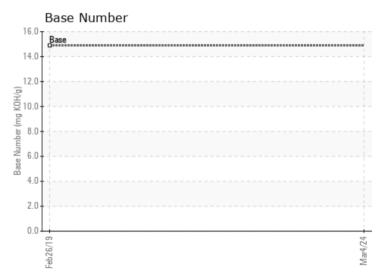


Viscosity @ 100°C

Feb26/19



Mar4/24



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Contact/Location: CHRIS BARTNIK - LEC0008