CONSTRUCTION EQUIPMENT

LIEBHERR L580 1414-52139 - Diesel Engine

11.310.3

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LIEBHERR MOTOROIL 5W-30 LOW ASH

Sample No: LH0264119

Oil Type:

SAMPLE INFORMATION

Sample Number	LH0264119	 	
Sample Date	14 Aug 2023	 	
Machine Hours	2270	 	
Oil Hours	1000	 	
Oil Changed	Changed	 	
Sample Status	NORMAL	 	

OIL CO	ONDITION
Visc @ 100°C	cSt
Base Number (BN)	ma KOH/a

%

Oxidation (PA)

11 A				
	ITAMIN	ATION		
Soot %	%	0.1	 	
Nitration (PA)	%	112	 	
Sulfation (PA)	%	58	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	09	 	
Sodium	ppm	0 2	 	
Potassium	ppm	0 2	 	

WEAR METALS

Iron	ppm	0 20	 	
Copper	ppm	0 35	 	
Lead	ppm	02	 	
Tin	ppm	01	 	
Aluminum	ppm	04	 	
Chromium	ppm	01	 	
Molybdenum	ppm	0 12	 	
Nickel	ppm	○ <1	 	
Titanium	ppm	<1	 	
Silver	ppm	○ <1	 	
Manganese	ppm	0 2	 	
Vanadium	ppm	0	 	

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om C				
U	3987			
pm C) 215			
pm C) 1264			
pm C) 1145			
pm C) 10			
pm C) 200			
p p	m C m C	m 1264 m 1145 m 10	m 0 1264 m 0 1145 m 0 10	m 0 1264 m 0 1145 m 0 10

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BINDERHOLZ

260 PIPER LN ENFIELD, NC US 27823 Contact: ROBERT BULLOCK robert.bullock@binderholz.com T: F:

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.

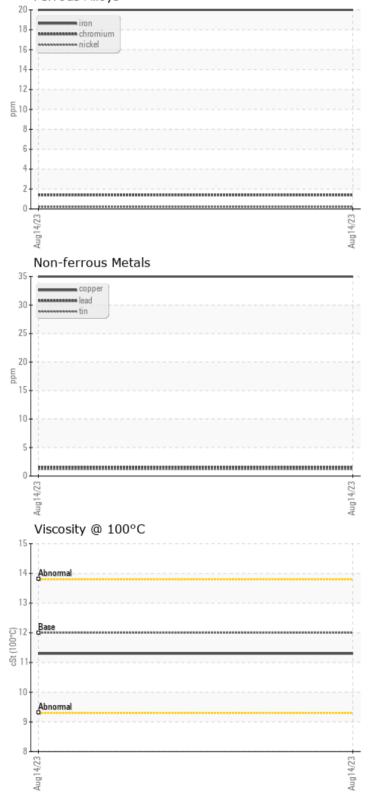


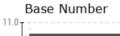


Ferrous Alloys

GRAPHS

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Base Number (mg KOH/g)

10.0 9.0 **Base** 8.0 7.0 6.0 5.0 4.0 3.0 2.0 1.0 0.0 EZ/FI^{DIN}

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