LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR L1827 (S/N 11113) - Diesel Engine

Sample No: LH0273164

Oil Type: LIEBHERR MOTOROIL 5W-30 LOW ASH

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Samp	le Inform	ation		
Sample Number		LH0273164	LH0247831	
Sample Date		14 May 2024	29 Aug 2023	
Machine Hours		1002	72	
Oil Hours		500	72	
Oil Changed		Changed	Not Changd	
Sample Status		ABNORMAL	ABNORMAL	
Sample Status		ADNURWAL	ADINUNIVIAL	
Oil Co	ndition			
Visc @ 100°C	cSt	11.5	O 11.9	
Base Number (BN)	mg KOH/g	7.3	O 14.2	
Oxidation (PA)	%	69	42	
-L	, 0			
Conta	mination			
Water	%	NEG	0.809	
Soot %	%	0.8	0.1	
Nitration (PA)	%	74	78	
Sulfation (PA)	%	57	40	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	<1.0	
Silicon	ppm	9	O 7	
Sodium	ppm	2	0 2	
Potassium	ppm	<u>0</u> 167	<u> </u>	
	PPIII	<u> </u>	0 10	
(Wegr				
Wear	Metals			
Iron	ppm	24	0 8	
Copper	ppm	5	01	
Lead	ppm	O <1	0 0	
Tin	ppm	O <1	0 0	
Aluminum	ppm	O 38	O 13	
Chromium	ppm	0 1	0 <1	
Molybdenum	ppm	4	0 <1	
Nickel	ppm	0	00	
Titanium	ppm	<1	<1	
Silver	ppm	01	0 <1	
Manganese	ppm	○ <1	0 <1	
Vanadium		<1	0	
Addit	ives	XI	U	
Calcium	ppm	3813	○ 3976	
Magnesium	ppm	157	O 161	
Zinc	ppm	1161	O 1151	
Phosphorus	ppm	1141	965	
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PETERSON CONTRACTORS INC

PO BOX A REINBECK, IA US 50669

Contact: WADE VANHAVEN MBERWALD@PCIUS.COM

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Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The aluminum level is abnormal. All other component wear rates are normal. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.

Depot: PETREILH
Unique No: 11036861
Signed: Jonathan Hester
Report Date: 23 May 2024

ppm

ppm

0

242

Barium

Boron

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Graphs







