

LIEBHERR TA230 Sullivan TA230 149809 - Diesel Engine

Sample No: LH0293243

Sodium

Potassium

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Oil Type: LIEBHERR MOTOROIL 5W30

Sample Information

Sample Number		LH0293243	LH0264570	
Sample Date		03 Jul 2024	01 Apr 2024	
Machine Hours		1169	650	
Oil Hours		519	650	
Oil Changed		Changed	Changed	
Sample Status		NORMAL	ABNORMAL	
Oil Co	ndition			
Visc @ 100°C	cSt	0 11.4	0 11.52	
Base Number (BN)	mg KOH/g	0 15.4	5.2	
Oxidation (PA)	%	57	173	
and a				
Conta	mination			
Water	%	NEG	NEG	
Soot %	%	0.1	0.1	
Nitration (PA)	%	90	91	
Sulfation (PA)	%	47	96	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	0.9	
Silicon	ppm	5	0 17	

A				
₩ee	ar Metal	S		
Iron	ppm	0 10	0 11	
Copper	ppm	073	0 392	
Lead	ppm	○ <1	0	
Tin	ppm	○ <1	○ 3	
Aluminum	ppm	04	6	
Chromium	ppm	○ <1	0	
Molybdenum	ppm	6	33	
Nickel	ppm	0	0	
Titanium	ppm	0	<1	
Silver	ppm	0	0	
Manganese	ppm	○ <1	03	
Vanadium	ppm	0	0	

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Addi Addi	itives			
Calcium	ppm	0 4079	0 1302	
Magnesium	ppm	151	0 853	
Zinc	ppm	0 1169	0 865	
Phosphorus	ppm	0 1056	○ 750	
Barium	ppm	01	28	
Boron	ppm	0 253	0 109	

Depot:LIEBHERRNCUnique No:11113291Signed:Sean FeltonReport Date:09 Jul 2024Submitted By:SHERWOOD LUCAS

Report Id: LIEBHERRNC	[WUSCAR] 06229798	(Generated: 07/09/2024	16:13:31) Rev: 1
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ppm

ppm



LIEBHERR EQUIPMENT SOURCE

8200 FAYETTEVILLE ROAD RALEIGH, NC US 27603 Contact: Timothy Bailey timothy.bailey@liebherr.com T: F: (919)329-0084

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Diagnosis

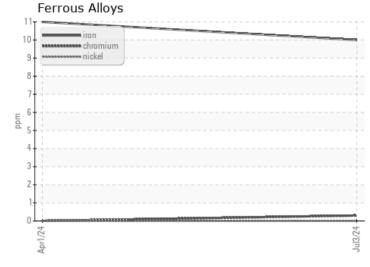
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

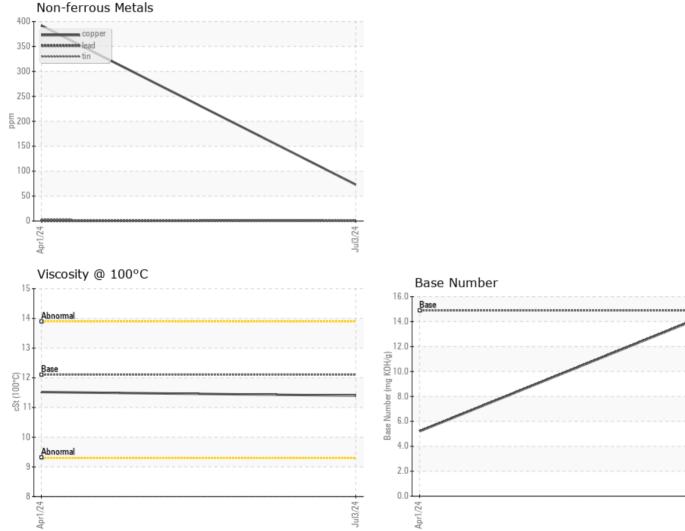




Graphs

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Jul3/24