LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR TA 230 40305 (S/N 149809-1513) - Diesel Engine

Sample No: LH0264570

Oil Type: LIEBHERR MOTOROIL 10W-40 LOW ASH

Samp	le Inform	ation		
Sample Number		LH0264570	 	
Sample Date		01 Apr 2024	 	
Machine Hours		650	 	
Oil Hours		650	 	
Oil Changed		Changed	 	
Sample Status		ABNORMAL	 	
A				
OilCo	ndition			
Visc @ 100°C	cSt	11.52	 	
Base Number (BN)		5.2	 	
Oxidation (PA)	%	173	 	
JXIUalion (FA)	/0	173	 	
Conta	mination	1		
Water	%	NEG	 	
Soot %	%	0.1	 	
Nitration (PA)	%	91	 	
Sulfation (PA)	%	96	 	
Glycol	%	NEG	 	
Fuel	%	0.9	 	
Silicon	ppm	17	 	
Sodium	ppm	6	 	
Potassium	ppm	0 2	 	
	1-1-	0 -		
O				
wear	Metals			
ron	ppm	11	 	
Copper	ppm	392	 	
_ead	ppm	0	 	
Γin	ppm	3	 	
Aluminum	ppm	6	 	
Chromium	ppm	0	 	
Molybdenum	ppm	33	 	
Nickel	ppm	0	 	
Γitanium	ppm	<1	 	
Silver	ppm	0	 	
	ppm	3	 	
Manganese	ppiii	O O		



LIEBHERR EQUIPMENT SOURCE

8200 FAYETTEVILLE ROAD RALEIGH, NC

US 27603

Contact: Timothy Bailey timothy.bailey@liebherr.com

T:

F: (919)329-0084

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot:LIEBHERRNCUnique No:10956525Signed:Jonathan HesterReport Date:11 Apr 2024

Submitted By: TAYLOR BLALOCK

1302

853

865

750

109

28

Additives

ppm

ppm

ppm

ppm

ppm

ppm

Calcium

Zinc

Barium

Boron

Magnesium

Phosphorus

LIEBHERR







Graphs







