LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LTM1090-4.2089274 - Diesel Engine

Sample No: LH0258652

Oil Type: LIEBHERR MOTOROIL 10W-40

Samp	le Inform	ation		
Sample Number	1	LH0258652	 	
Sample Date		28 May 2024	 	
Machine Hours		20437	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		ATTENTION	 	
	ndition			
Visc @ 100°C	cSt	<u> </u>	 	
Base Number (BN)	mg KOH/g	7.4	 	
Oxidation (PA)	%	86	 	
Conta	mination	1		
Water	%	NEG	 	
Soot %	%	0.2	 	
Nitration (PA)	%	100		
, ,			 	
Sulfation (PA)	%	66	 	
Glycol	%	NEG	 	
Fuel	%	0.8	 	
Silicon	ppm	15	 	
Sodium	ppm	16	 	
Potassium	ppm	10	 	
Wear				
Wear	Metals			
Iron	ppm	36	 	
Copper	ppm	30	 	
Lead	ppm	22	 	
Tin	ppm	3	 	
Aluminum	ppm	0 4	 	
Chromium	ppm	<u>0</u> 2	 	
Molybdenum	ppm	23	 	
Nickel		O <1	 	
Titanium	ppm			
	ppm	<1	 	
Silver	ppm	0 0	 	
Manganese	ppm	01	 	
Vanadium	ppm	0	 	
Addit	•			
	ives			
Calcium	ppm	2314	 	
Magnesium	ppm	358	 	
Zinc	ppm	986	 	
Phosphorus	ppm	806	 	
Barium	ppm	0 4	 	
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LIEBHERR USA CO - MOBILE AND CRAWLER CRANES
4800 CHESTNUT AVENUE
NEWPORT NEWS, VA
US 23607
Contact: CHRIS JONES
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T: (757)245-5251

F:

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. 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:LIENEWUnique No:11063138Signed:Sean FeltonReport Date:10 Jun 2024

Contact/Location: CHRIS JONES - LIENEW

ppm

Boron

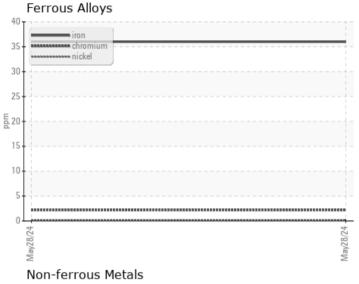
LIEBHERR

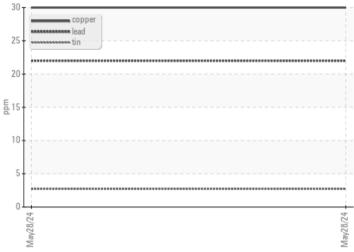






Graphs





O Viscosity @ 100°C

