

[(368664)] LIEBHERR L550 062917-1756 - Diesel Engine

Sample No: LH0261510

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number	LH0261510	LH0242590				
Sample Date	17 May 2023	08 Nov 2022				
Machine Hours	3364	2133				
Oil Hours	0	0				
Oil Changed	Changed	Changed				
Sample Status	ABNORMAL	NORMAL				
OIL CONDITION						
Visc @ 100°C cSt	0 11.6	13.2				

95

Oxidation (PA)

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Water	%	NEG	NEG			
Soot %	%	0.1	0			
Nitration (PA)	%	93	78			
Sulfation (PA)	%	65	59			
Glycol	%	NEG	0.0			
Fuel	%	0 1.5	<1.0			
Silicon	ppm	0 11	8			
Sodium	ppm	04	3			
Potassium	ppm	1 4	0 15			

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WEAR METALS

%

Iron	ppm	0 16	0 11	
Copper	ppm	0 149	0 142	
Lead	ppm	05	0 4	
Tin	ppm	01	○ <1	
Aluminum	ppm	04	2	
Chromium	ppm	◯ <1	○ <1	
Molybdenum	ppm	0 48	2	
Nickel	ppm	<mark></mark> <1	○ <1	
Titanium	ppm	○ <1	○ <1	
Silver	ppm	0 🔘	0	
Manganese	ppm	○ <1	◯ <1	
Vanadium	ppm	0	0	

ADDITIVES Calcium 0 1085 ppm 2184 Magnesium **944** 031 ppm Zinc 0 1231 0 1166 ppm Phosphorus 0 1047 0 1012 ppm Barium ◯ <1 ◯ <1 ppm Boron 0 20 ppm 18





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Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.All component wear rates are normal. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Light fuel dilution occurring. No other contaminants were detected in the oil. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

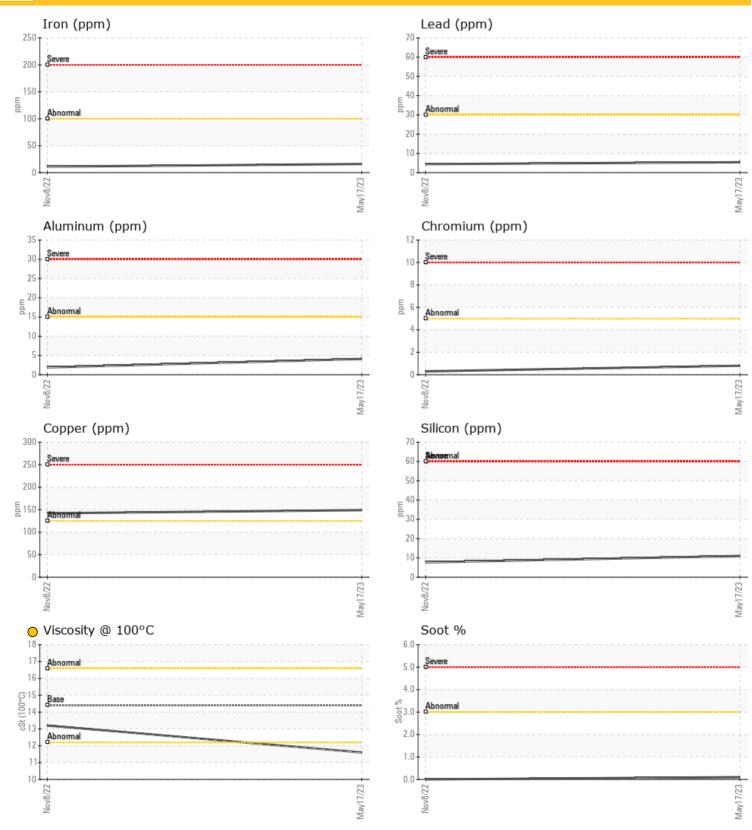
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CONSTRUCTION EQUIPMENT



GRAPHS

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