CONSTRUCTION EQUIPMENT

LIEBHERR HS 8100 HD 184977 - Boom Luffing Gearbox

Sample No: LHMC143560

Oil Type: 90 EP

SAMPLE INFORMATION

Sample Number	LHMC143560	 	
Sample Date	23 Oct 2018	 	
Machine Hours	606	 	
Oil Hours	606	 	
Oil Changed	Changed	 	
Sample Status	NORMAL	 	

OIL CONDITION

Visc @ 40°C

cSt 🔘 186.9

Water	%	NEG			
Silicon	ppm	0			
Sodium	ppm	2			
Potassium	ppm	0 ()			

WEAI	R METALS			
Iron	ppm	83	 	
Copper	ppm	1	 	
Lead	ppm	0	 	
Tin	ppm	0	 	
Aluminum	ppm	<1	 	
Chromium	ppm	01	 	
Molybdenum	ppm	0	 	
Nickel	ppm	○ <1	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	2	 	
Vanadium	ppm	0	 	

ADDITIVES					
Calcium	ppm	12			
Magnesium	ppm	0			
Zinc	ppm	173			
Phosphorus	ppm	739			
Barium	ppm	0			
Boron	ppm	<1			





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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 condition of the oil is acceptable for the time in service.

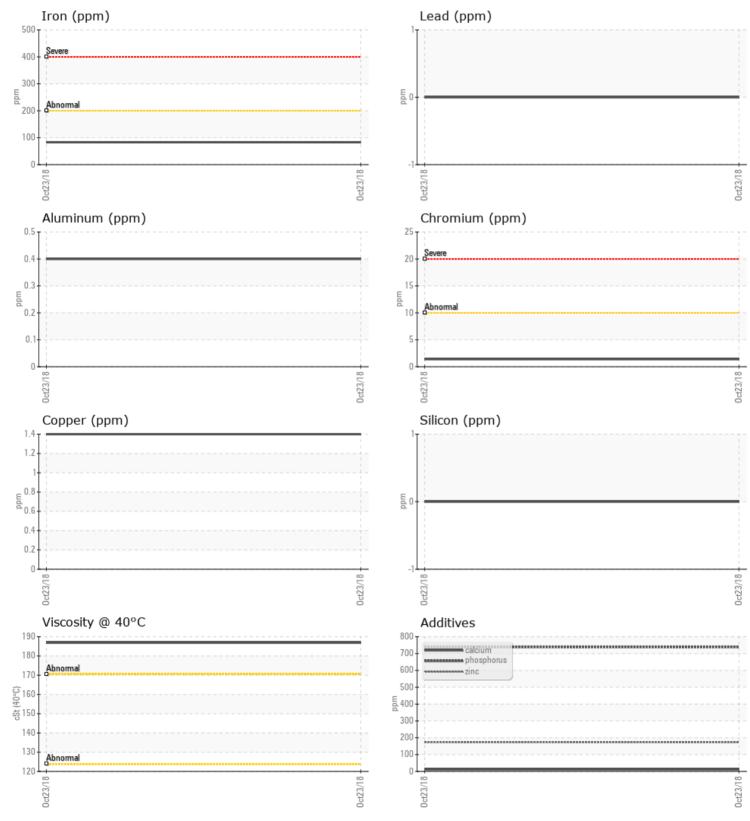
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GRAPHS

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Contact/Location: ROBERT SHAFFER - DENPAE