

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR HS 8100 HD 184977 - Boom Luffing Gearbox

Sample No: LHMC143560

Oil Type: 90 EP



**DENSIFICATION INC**  
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#### 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	---	---	---
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#### CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	0	---	---	---
Sodium	ppm	● 2	---	---	---
Potassium	ppm	● 0	---	---	---



#### WEAR METALS

Iron	ppm	● 83	---	---	---
Copper	ppm	1	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	<1	---	---	---
Chromium	ppm	● 1	---	---	---
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	---	---	---

#### 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.

Depot: DENPAE  
 Unique No: 8382269  
 Signed: Wes Davis  
 Report Date: 01 Nov 2018



### GRAPHS

