

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 120737-1216 - Rear Left Wheel Hub

Sample No: LH0173862

Oil Type: TEXACO HAVOLINE GEAR OIL 80W90



STAIMAN RECYCLING
 201 HEPBURN ST
 WILLIAMSPORT, PA
 US 17701
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SAMPLE INFORMATION

Sample Number	LH0173862	---	---	---
Sample Date	14 Dec 2020	---	---	---
Machine Hours	1058	---	---	---
Oil Hours	1058	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 145	---	---	---
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CONTAMINATION

Silicon	ppm	● 14	---	---	---
Sodium	ppm	● 4	---	---	---
Potassium	ppm	● <1	---	---	---



WEAR METALS

Iron	ppm	● 35	---	---	---
Copper	ppm	● 59	---	---	---
Lead	ppm	● <1	---	---	---
Tin	ppm	● 0	---	---	---
Aluminum	ppm	● 0	---	---	---
Chromium	ppm	● <1	---	---	---
Molybdenum	ppm	● 3	---	---	---
Nickel	ppm	● 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	2	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	● 214	---	---	---
Magnesium	ppm	● 3	---	---	---
Zinc	ppm	● 58	---	---	---
Phosphorus	ppm	● 2139	---	---	---
Barium	ppm	● <1	---	---	---
Boron	ppm	● 6	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Moderate concentration of visible metal present. 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: STAWILLH
Unique No: 9306037
Signed: Jonathan Hester
Report Date: 30 Dec 2020



GRAPHS

