

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 120737-1216 - Left Wheel Hub

Sample No: LH0167299

Oil Type: TEXACO HAVOLINE GEAR OIL 80W90



STAIMAN RECYCLING

201 HEPBURN ST
WILLIAMSPORT, PA
US 17701

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SAMPLE INFORMATION

Sample Number	LH0167299	LHMC110892	---	---
Sample Date	21 Jan 2022	15 Apr 2021	---	---
Machine Hours	4199	2044	---	---
Oil Hours	1103	986	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 141	● 150	---	---
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CONTAMINATION

Silicon	ppm	● 3	● 4	---	---
Sodium	ppm	● 2	● 3	---	---
Potassium	ppm	● 0	● 0	---	---



WEAR METALS

Iron	ppm	● 36	● 23	---	---
Copper	ppm	● 25	● 18	---	---
Lead	ppm	● 0	● <1	---	---
Tin	ppm	● <1	● <1	---	---
Aluminum	ppm	● 1	● <1	---	---
Chromium	ppm	● <1	● <1	---	---
Molybdenum	ppm	● 9	● 10	---	---
Nickel	ppm	● 0	● 0	---	---
Titanium	ppm	1	<1	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	1	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	● 54	● 104	---	---
Magnesium	ppm	● 26	● 17	---	---
Zinc	ppm	● 62	● 61	---	---
Phosphorus	ppm	● 496	● 695	---	---
Barium	ppm	● 0	● 0	---	---
Boron	ppm	● 34	● 14	---	---

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: STAWILLH
Unique No: 9829359
Signed: Jonathan Hester
Report Date: 01 Feb 2022



GRAPHS

