

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 120737-1216 - Swing Drive

Sample No: LHMC116863

Oil Type: TEXACO HAVOLINE GEAR OIL 80W90



STAIMAN RECYCLING

201 HEPBURN ST
WILLIAMSPORT, PA
US 17701

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SAMPLE INFORMATION

Sample Number	LHMC116863	LH0173867	---	---
Sample Date	15 Apr 2021	14 Dec 2020	---	---
Machine Hours	2044	1058	---	---
Oil Hours	986	377	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 149	● 135	---	---
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CONTAMINATION

Silicon	ppm	● <1	● 0	---	---
Sodium	ppm	● 2	● 0	---	---
Potassium	ppm	● 0	● 0	---	---



WEAR METALS

Iron	ppm	● 70	● 38	---	---
Copper	ppm	● 24	● 27	---	---
Lead	ppm	● 0	● 0	---	---
Tin	ppm	● <1	● 1	---	---
Aluminum	ppm	● <1	● 0	---	---
Chromium	ppm	● <1	● <1	---	---
Molybdenum	ppm	● 9	● <1	---	---
Nickel	ppm	● 0	● 0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	● 75	● 21	---	---
Magnesium	ppm	● 16	● 5	---	---
Zinc	ppm	● 45	● 1	---	---
Phosphorus	ppm	● 665	● 1776	---	---
Barium	ppm	● 0	● <1	---	---
Boron	ppm	● 48	● 307	---	---

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: 9515464
Signed: Don Baldrige
Report Date: 25 May 2021



GRAPHS

