

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 120737-1216 - Swing Drive

Sample No: LH0167294

Oil Type: TEXACO HAVOLINE GEAR OIL 80W90



STAIMAN RECYCLING

201 HEPBURN ST
WILLIAMSPORT, PA
US 17701

Contact: JOE MARKLEY
jmarkleysr@staimanrecycling.com
T: (570)419-5479
F:



SAMPLE INFORMATION

Sample Number	LH0167294	LHMC116863	LH0173867	---
Sample Date	21 Jan 2022	15 Apr 2021	14 Dec 2020	---
Machine Hours	4199	2044	1058	---
Oil Hours	1103	986	377	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	SEVERE	NORMAL	NORMAL	---



OIL CONDITION

Visc @ 40°C	cSt	154	149	135	---
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CONTAMINATION

Water	%	1.53	---	---	---
Silicon	ppm	3	<1	0	---
Sodium	ppm	2	2	0	---
Potassium	ppm	<1	0	0	---



WEAR METALS

Iron	ppm	748	70	38	---
Copper	ppm	82	24	27	---
Lead	ppm	<1	0	0	---
Tin	ppm	3	<1	1	---
Aluminum	ppm	1	<1	0	---
Chromium	ppm	8	<1	<1	---
Molybdenum	ppm	5	9	<1	---
Nickel	ppm	2	0	0	---
Titanium	ppm	<1	<1	0	---
Silver	ppm	<1	0	0	---
Manganese	ppm	5	<1	<1	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	58	75	21	---
Magnesium	ppm	18	16	5	---
Zinc	ppm	74	45	1	---
Phosphorus	ppm	518	665	1776	---
Barium	ppm	0	0	<1	---
Boron	ppm	40	48	307	---

Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: STAWILLH
Unique No: 9829353
Signed: Jonathan Hester
Report Date: 01 Feb 2022



GRAPHS

