

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 120737-1216 - Transmission (Manual)

Sample No: LH0167293

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	LH0167293	LHMC110878	LH0173866	---
Sample Date	21 Jan 2022	15 Apr 2021	14 Dec 2020	---
Machine Hours	4199	2044	1058	---
Oil Hours	1103	986	1058	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ATTENTION	ATTENTION	ATTENTION	---



OIL CONDITION

Visc @ 40°C	cSt	104	78.6	48.5	---
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CONTAMINATION

Silicon	ppm	4	3	4	---
Sodium	ppm	11	19	33	---
Potassium	ppm	<1	1	4	---



WEAR METALS

Iron	ppm	75	36	33	---
Copper	ppm	130	59	46	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	2	2	2	---
Aluminum	ppm	2	3	0	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	8	6	<1	---
Nickel	ppm	0	0	<1	---
Titanium	ppm	1	<1	<1	---
Silver	ppm	<1	<1	0	---
Manganese	ppm	11	26	53	---
Vanadium	ppm	0	<1	<1	---



ADDITIVES

Calcium	ppm	856	1912	3648	---
Magnesium	ppm	28	14	13	---
Zinc	ppm	358	641	1190	---
Phosphorus	ppm	678	842	1178	---
Barium	ppm	0	0	<1	---
Boron	ppm	34	14	4	---

Diagnosis

The fluid change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The fluid viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

Depot: STAWILLH
 Unique No: 9829368
 Signed: Jonathan Hester
 Report Date: 01 Feb 2022



GRAPHS

