

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 120737-1216 - Rear Differential

Sample No: LHMC110862

Oil Type: TEXACO HAVOLINE GEAR OIL 80W90



STAIMAN RECYCLING

201 HEPBURN ST
WILLIAMSPORT, PA
US 17701

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SAMPLE INFORMATION

Sample Number	LHMC110862	LH0173864	---	---
Sample Date	15 Apr 2021	14 Dec 2020	---	---
Machine Hours	2044	1058	---	---
Oil Hours	986	1058	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	150	143	---	---
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CONTAMINATION

Silicon	ppm	4	13	---	---
Sodium	ppm	2	4	---	---
Potassium	ppm	0	<1	---	---



WEAR METALS

Iron	ppm	23	33	---	---
Copper	ppm	16	52	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	<1	0	---	---
Aluminum	ppm	<1	0	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	10	3	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	2	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	105	223	---	---
Magnesium	ppm	16	4	---	---
Zinc	ppm	63	57	---	---
Phosphorus	ppm	697	2099	---	---
Barium	ppm	0	<1	---	---
Boron	ppm	15	7	---	---

Diagnosis

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of metal. Resample at the next service interval to monitor. High 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: 9515461
Signed: Don Baldrige
Report Date: 25 May 2021



GRAPHS

