

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 109502-1216 - Transmission

Sample No: LHMC149766

Oil Type: LIEBHERR MOTOROIL 5W30



AMERICAN STATE EQUIPMENT CO.
 2400 NORTH 14TH AVENUE
 WAUSAU, WI
 US 54401
 Contact: CHRIS BARTNIK
 cbartnik@amstate.com
 T: (715)675-6900
 F: (715)675-9748



SAMPLE INFORMATION

Sample Number	LHMC149766	---	---	---
Sample Date	26 Feb 2019	---	---	---
Machine Hours	827	---	---	---
Oil Hours	827	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 59.59	---	---	---
-------------	-----	---------	-----	-----	-----



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	● 9	---	---	---
Sodium	ppm	● 34	---	---	---
Potassium	ppm	● 10	---	---	---



WEAR METALS

Iron	ppm	● 21	---	---	---
Copper	ppm	● 15	---	---	---
Lead	ppm	● 0	---	---	---
Tin	ppm	● 0	---	---	---
Aluminum	ppm	● 4	---	---	---
Chromium	ppm	● <1	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● 16	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	● 3260	---	---	---
Magnesium	ppm	● 7	---	---	---
Zinc	ppm	● 1088	---	---	---
Phosphorus	ppm	● 1029	---	---	---
Barium	ppm	● 1	---	---	---
Boron	ppm	● 2	---	---	---

Diagnosis

We suspect abnormal metal contamination may be due to sampling method. The fluid change at the time of sampling has been noted. 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 fluid. The condition of the fluid is acceptable for the time in service.

Depot: LEC0008
 Unique No: 8516543
 Signed: Don Baldrige
 Report Date: 07 Mar 2019



GRAPHS

