

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-139058 - Front Differential

Sample No: LHMC85446

Oil Type: MOBIL MOBILUBE HD LS 80W90



PACKAGING CORP. OF AMERICA
 N9090 COUNTY RD E
 TOMAHAWK, WI
 US 54487
 Contact: ROSS RICHARD
 rossrichards@packagingcorp.com
 T: (715)453-2131
 F: (715)453-0430



SAMPLE INFORMATION

Sample Number	LHMC85446	LHMC62881	---	---
Sample Date	17 Aug 2023	23 Jan 2023	---	---
Machine Hours	4098	2000	---	---
Oil Hours	2000	2000	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 146	● 184	---	---
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CONTAMINATION

Silicon	ppm	● 4	● 6	---	---
Sodium	ppm	● 2	● 3	---	---
Potassium	ppm	● 0	● 0	---	---



WEAR METALS

Iron	ppm	● 7	● 31	---	---
Copper	ppm	● 15	● 46	---	---
Lead	ppm	● 0	● <1	---	---
Tin	ppm	● 0	● 0	---	---
Aluminum	ppm	● 0	● <1	---	---
Chromium	ppm	● 0	● <1	---	---
Molybdenum	ppm	● 0	● <1	---	---
Nickel	ppm	● 0	● <1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	● <1	● 2	---	---
Vanadium	ppm	● <1	0	---	---



ADDITIVES

Calcium	ppm	● 8	● 4	---	---
Magnesium	ppm	● 0	● 0	---	---
Zinc	ppm	● 1	● 28	---	---
Phosphorus	ppm	● 2064	● 1088	---	---
Barium	ppm	● 0	● 367	---	---
Boron	ppm	● 181	● 0	---	---

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: PACTOM
 Unique No: 10619843
 Signed: Wes Davis
 Report Date: 25 Aug 2023



GRAPHS

