

LIEBHERR

CONSTRUCTION EQUIPMENT



054454-194 - Brake

Sample No: LHMC123415

Oil Type: LIEBHERR GEAR BASIC 90 LS



UNITED STATES GYPSUM
 301 RILEY RD
 EAST CHICAGO, IN
 US 43612
 Contact: Service Manager



SAMPLE INFORMATION

Sample Number	LHMC123415	---	---	---
Sample Date	09 Jan 2020	---	---	---
Machine Hours	3409	---	---	---
Oil Hours	3409	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	151	---	---	---
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T:
F:



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	100	---	---	---
Sodium	ppm	144	---	---	---
Potassium	ppm	3	---	---	---

Diagnosis

No corrective action is recommended at this time. The fluid change at the time of sampling has been noted. Resample at the next service interval to monitor. Bearing and/or bushing wear is indicated. All other metal levels are typical for a new component breaking in. Moderate concentration of visible dirt/debris present in the fluid. The condition of the fluid is acceptable for the time in service.



WEAR METALS

Iron	ppm	283	---	---	---
Copper	ppm	387	---	---	---
Lead	ppm	5	---	---	---
Tin	ppm	15	---	---	---
Aluminum	ppm	34	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	0	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	6	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	301	---	---	---
Magnesium	ppm	10	---	---	---
Zinc	ppm	176	---	---	---
Phosphorus	ppm	1021	---	---	---
Barium	ppm	26	---	---	---
Boron	ppm	12	---	---	---

Depot: UNIEASLH
Unique No: 8883923
Signed: Don Baldrige
Report Date: 16 Jan 2020



GRAPHS

