

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50 1216-115016 - Rear Differential

Sample No: LH0156672

Oil Type: GEAR OIL SAE 75W140



#### SAMPLE INFORMATION

Sample Number	LH0156672	LH0156616	LH0156714	LH0156560
Sample Date	30 Aug 2023	25 Apr 2023	25 Jan 2023	21 Nov 2019
Machine Hours	16752	15594	14552	473
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	NORMAL	ATTENTION	ABNORMAL	NORMAL

#### BOISE WHITE PAPER

3RD AVE AND HWY 11, 400 2ND ST  
INTERNATIONAL FALLS, MN  
US 56649  
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#### OIL CONDITION

Visc @ 40°C	cSt	86.9	95.0	87.2	161



#### CONTAMINATION

Element	Unit	7	19	108	12
Silicon	ppm	7	19	108	12
Sodium	ppm	1	<1	5	4
Potassium	ppm	0	3	<1	7



#### WEAR METALS

Element	Unit	37	60	413	46
Iron	ppm	37	60	413	46
Copper	ppm	7	4	36	31
Lead	ppm	0	0	<1	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	2	7	1
Chromium	ppm	0	0	3	<1
Molybdenum	ppm	1	2	1	2
Nickel	ppm	0	0	2	<1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	1	5	1
Vanadium	ppm	<1	0	<1	0



#### ADDITIVES

Element	Unit	50	33	71	185
Calcium	ppm	50	33	71	185
Magnesium	ppm	3	8	2	3
Zinc	ppm	193	68	186	44
Phosphorus	ppm	637	767	1255	1941
Barium	ppm	0	0	1	5
Boron	ppm	4	15	89	12

#### Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. 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: BOIINT  
Unique No: 10633770  
Signed: Sean Felton  
Report Date: 08 Sep 2023



### GRAPHS

