

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### 054454-194 - Rear Differential

Sample No: LHMC130558

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

Sample Number	LHMC130558	LHMC96905	LHMC73508	LH03741353
Sample Date	09 Jan 2020	26 Apr 2018	16 May 2016	27 Apr 2015
Machine Hours	3409	2587	986	595
Oil Hours	0	0	0	595
Oil Changed	Not Chngd	Not Chngd	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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



#### OIL CONDITION

Visc @ 40°C	cSt	136	134.8	139.4	184.8

T:  
F:



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<1	<1	<1	2
Sodium	ppm	<1	<1	0	2
Potassium	ppm	1	5	3	<1

#### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The condition of the oil is acceptable for the time in service.



#### WEAR METALS

Iron	ppm	4	3	1	2
Copper	ppm	2	2	1	2
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	0	0	0	<1
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	0	0	<1	0
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	5	5	5	2
Magnesium	ppm	0	0	0	0
Zinc	ppm	3	2	3	2
Phosphorus	ppm	1831	1779	1470	1093
Barium	ppm	13	10	56	335
Boron	ppm	262	234	226	4

Depot: UNIEASLH  
 Unique No: 8883925  
 Signed: Don Baldrige  
 Report Date: 16 Jan 2020



### GRAPHS

