

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(360377)] LIEBHERR L580 059426-1464 - Rear Differential

Sample No: LH0237648

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

Sample Number	LH0237648	LH0242481	LH0239710	LH0230687
Sample Date	08 Sep 2023	17 Nov 2022	18 Aug 2022	31 May 2022
Machine Hours	5106	3593	2987	2443
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

**CLOUTHIER VENTURES LTD.**  
 59 MATTHEWS STREET, R.R. # 5  
 PEMBROKE, ON  
 CA K8A 0A6  
 Contact: Travis Bennett  
 tbennett@clouthierconst.com  
 T: (613)735-6531  
 F: (613)735-2769



#### OIL CONDITION

Visc @ 40°C	cSt	171	158	169	121
-------------	-----	-----	-----	-----	-----



#### CONTAMINATION

Silicon	ppm	4	2	3	12
Sodium	ppm	1	1	1	4
Potassium	ppm	<1	<1	0	<1



#### WEAR METALS

Iron	ppm	29	29	27	178
Copper	ppm	28	14	22	119
Lead	ppm	<1	0	<1	3
Tin	ppm	2	1	1	8
Aluminum	ppm	<1	0	0	1
Chromium	ppm	0	0	0	2
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	2	2	2	19
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	15	15	7	12
Magnesium	ppm	<1	<1	<1	3
Zinc	ppm	20	9	11	32
Phosphorus	ppm	2224	2372	2308	2602
Barium	ppm	<1	0	0	0
Boron	ppm	30	18	32	158

#### 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: CLOPEM  
 Unique No: 5646709  
 Signed: Wes Davis  
 Report Date: 28 Sep 2023



### GRAPHS

