

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH80M 1218-157090 - Rear Differential

Sample No: LH0282871

Oil Type: GEAR OIL SAE 80W90



**KINDER MORGAN**

4301 IVERSON

TRINITY, AL

US 35601

Contact: RICKY JOHNSON

ricky\_johnson@kindermorgan.com

T:

F: (256)355-5250



#### Sample Information

Sample Number	LH0282871	LH0282882	LH0282893	---
Sample Date	18 May 2024	19 Apr 2024	19 Mar 2024	---
Machine Hours	1559	997	545	---
Oil Hours	0	0	0	---
Oil Changed	Not Changd	Changed	Not Changd	---
Sample Status	ATTENTION	NORMAL	NORMAL	---



#### Oil Condition

Visc @ 40°C	cSt	89.2	145	139	---
-------------	-----	------	-----	-----	-----



#### Contamination

Water	%	NEG	NEG	NEG	---
Silicon	ppm	6	11	10	---
Sodium	ppm	2	2	4	---
Potassium	ppm	2	3	<1	---



#### Wear Metals

Iron	ppm	29	41	33	---
Copper	ppm	14	15	11	---
Lead	ppm	0	<1	0	---
Tin	ppm	0	<1	2	---
Aluminum	ppm	1	<1	<1	---
Chromium	ppm	<1	0	<1	---
Molybdenum	ppm	4	0	1	---
Nickel	ppm	<1	0	<1	---
Titanium	ppm	<1	0	0	---
Silver	ppm	<1	0	0	---
Manganese	ppm	<1	2	1	---
Vanadium	ppm	<1	0	<1	---



#### Additives

Calcium	ppm	180	127	186	---
Magnesium	ppm	30	5	<1	---
Zinc	ppm	122	28	34	---
Phosphorus	ppm	532	1532	1503	---
Barium	ppm	0	1	0	---
Boron	ppm	6	5	6	---

#### 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 oil viscosity is lower than normal. Confirm oil type.

Depot: KINTRI

Unique No: 11049361

Signed: Don Baldrige

Report Date: 30 May 2024



### Graphs

