

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH110 1227-155752 - Front Left Wheel Hub

Sample No: LH0280587

Oil Type: GEAR OIL SAE 80W90



#### Sample Information

Sample Number	LH0280587	LH0280587	LH0280576	LH0280565
Sample Date	18 Apr 2024	19 Mar 2024	20 Feb 2024	11 Jan 2024
Machine Hours	1980	1544	1022	507
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

**KINDER MORGAN**  
4301 IVERSON  
TRINITY, AL  
US 35601  
Contact: CHIP OAKES



#### Oil Condition

Visc @ 40°C	cSt	116	120	173	150

T: (256)350-0006  
F: (256)355-5250



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	8	6	11	7
Sodium	ppm	0	0	3	3
Potassium	ppm	<1	3	0	2

#### 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.



#### Wear Metals

Iron	ppm	21	18	26	33
Copper	ppm	0	<1	0	15
Lead	ppm	0	0	<1	0
Tin	ppm	0	1	0	<1
Aluminum	ppm	<1	1	<1	<1
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	1	2	0	0
Nickel	ppm	0	<1	0	<1
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	1
Vanadium	ppm	0	<1	<1	0



#### Additives

Calcium	ppm	199	244	134	106
Magnesium	ppm	5	6	0	2
Zinc	ppm	108	116	14	22
Phosphorus	ppm	490	493	1446	1253
Barium	ppm	0	0	0	2
Boron	ppm	<1	3	4	6

Depot: KINTRI  
Unique No: 11031829  
Signed: Wes Davis  
Report Date: 16 May 2024



### Graphs

