

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH30 101514-1253 - Front Right Wheel Hub

Sample No: LH0235746

Oil Type: GEAR OIL SAE 80W90



#### SAMPLE INFORMATION

Sample Number	<b>LH0235746</b>	LH0217623	LH0166349	LH0217212
Sample Date	<b>25 Sep 2023</b>	22 Mar 2023	14 Jul 2022	18 Mar 2022
Machine Hours	<b>11543</b>	10552	7420	8554
Oil Hours	<b>0</b>	2000	0	500
Oil Changed	<b>Changed</b>	Changed	N/A	Changed
Sample Status	<b>ABNORMAL</b>	NORMAL	ABNORMAL	ABNORMAL

**SPARTAN RECYCLING**

3071 HOWARD ST  
SPARTANBURG, SC  
US 29303

Contact: SERVICE MANAGER



#### OIL CONDITION

Visc @ 40°C	cSt	<b>108</b>	107	94.8	93.4
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T:  
F:



#### CONTAMINATION

Silicon	ppm	<b>8</b>	7	12	5
Sodium	ppm	<b>3</b>	2	4	3
Potassium	ppm	<b>2</b>	2	3	0

#### Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Gear wear is indicated. There is no indication of any contamination in the oil. Confirm oil type. The condition of the oil is acceptable for the time in service.



#### WEAR METALS

Iron	ppm	<b>581</b>	204	724	621
Copper	ppm	<b>11</b>	2	8	5
Lead	ppm	<b>0</b>	0	<1	0
Tin	ppm	<b>0</b>	0	<1	<1
Aluminum	ppm	<b>2</b>	<1	2	2
Chromium	ppm	<b>2</b>	<1	2	2
Molybdenum	ppm	<b>1</b>	2	<1	<1
Nickel	ppm	<b>0</b>	0	<1	0
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>4</b>	2	5	6
Vanadium	ppm	<b>&lt;1</b>	0	<1	0



#### ADDITIVES

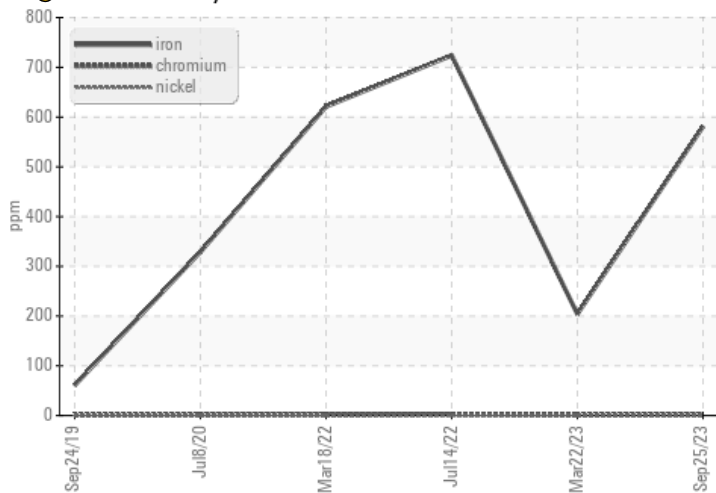
Calcium	ppm	<b>94</b>	120	26	46
Magnesium	ppm	<b>10</b>	15	4	4
Zinc	ppm	<b>67</b>	76	20	18
Phosphorus	ppm	<b>288</b>	290	266	275
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	<1	4	3

Depot: SPASPALH  
Unique No: 10674696  
Signed: Don Baldrige  
Report Date: 05 Oct 2023

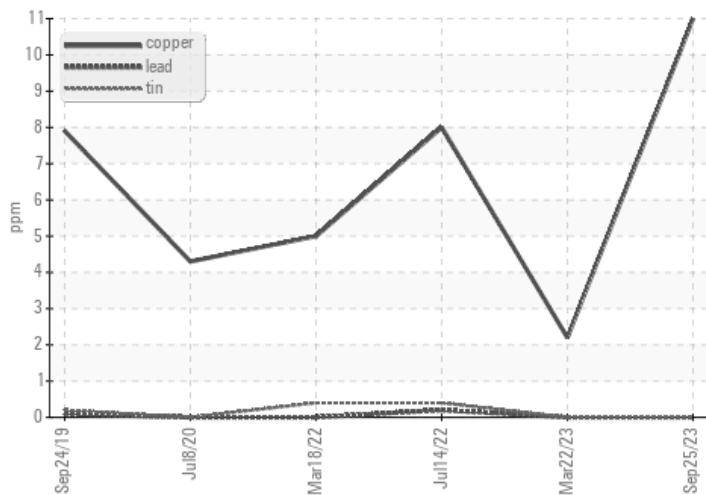


### GRAPHS

#### ● Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

