

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R920 045422-1705 - Left Final Drive

Sample No: LHMC116833

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

Sample Number	<b>LHMC116833</b>	LH0229833	LH0217222	LHMC104378
Sample Date	<b>11 Jul 2023</b>	29 Nov 2022	15 Apr 2022	07 Feb 2022
Machine Hours	<b>9805</b>	8143	7593	7059
Oil Hours	<b>1000</b>	500	500	559
Oil Changed	<b>Changed</b>	Changed	Changed	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

#### POTOMAC METALS

42702 DULLES TRADE CT  
STERLING, VA  
US 20166  
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T: (703)430-3667  
F:



#### OIL CONDITION

Visc @ 40°C	cSt	● 211	● 370	● 366	● 370
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#### CONTAMINATION

Silicon	ppm	● 3	● 14	● 57	● 47
Sodium	ppm	● 2	● 3	● 14	● 6
Potassium	ppm	● 0	● 1	● 2	● 5



#### WEAR METALS

Iron	ppm	● 20	● 61	● 207	● 150
Copper	ppm	● 0	● <1	● <1	● <1
Lead	ppm	● 0	● <1	● 0	● <1
Tin	ppm	● 0	● 0	● <1	● 0
Aluminum	ppm	● 0	● 5	● 18	● 14
Chromium	ppm	● 0	● <1	● 2	● 2
Molybdenum	ppm	● 0	● 2	● 0	● <1
Nickel	ppm	● 0	● 0	1	0
Titanium	ppm	0	<1	2	1
Silver	ppm	0	<1	0	0
Manganese	ppm	● 0	● <1	● 2	● 1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	● 7	● 41	● 17	● 15
Magnesium	ppm	● 4	● 7	● 4	● 5
Zinc	ppm	● 10	● 16	● 5	● 2
Phosphorus	ppm	● 2123	● 1109	● 1001	● 1061
Barium	ppm	● 6	● 0	● 0	● 0
Boron	ppm	● 0	● 4	● 2	● 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 oil. The condition of the oil is acceptable for the time in service.

Depot: POTSTE  
Unique No: 10635927  
Signed: Don Baldrige  
Report Date: 10 Sep 2023



### GRAPHS

