LIEBHERR

CONSTRUCTION EQUIPMENT



Sample No: LH0243876

Vanadium

Calcium

Zinc

Barium

Boron

Magnesium

Phosphorus

ppm

mqq

ppm

ppm

ppm

ppm

ppm

ADDITIVES

Oil Type: LIEBHERR GEAR BASIC 90 LS

5					
U SAM	PLE INFO	DRMATION			
Sample Number		LH0243876	LH0229397	LHMC93579	
Sample Date		29 Feb 2024	03 Oct 2022	29 Dec 2015	
Machine Hours		29512	28033	15560	
Oil Hours		0	2000	1000	
Oil Changed		Changed	Not Changd	Changed	
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL	
OILC	ONDITIO	ON			
Visc @ 40°C	cSt	O 314	308	○ 315.5	
CON	TAMINA	TION			
Water	%	NEG	NEG	NEG	
Silicon	ppm	2	O 37	O 1	
Sodium	ppm	○ <1	0 2	<1	
Potassium	ppm	5	O 6	O 15	
Ø WEA					
WEA	R META	LS			
Iron	ppm	8	O 42	O 2	
Copper	ppm	O 105	O 93	25	
Lead	ppm	0	O 2	<1	
Tin	ppm	O <1	O 0	0	
Aluminum	ppm	0 <1	17	<1	
Chromium	ppm	0	O 0	0	
Molybdenum	ppm	() <1	O 2	O <1	
Nickel	ppm	0 <1	0	0	
Titanium	ppm	0	1	0	
Silver	ppm	0	0	0	
Manganese	ppm	○ <1	O 1	0	

74

09

0 84

925

180

0

29

3

O 27

684

○ 0
○ 122



LIEBHERR EQUIPMENT SOURCE

4100 CHESTNUT AVENUE NEWPORT NEWS, VA US 23607

Contact: LUKE APPLEBY Lucas.Appleby@liebherr.com

T:

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Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Bearing and/or bushing wear is indicated. All other component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. Confirm oil type.

Depot:LIEBHERRUSUnique No:10915863Signed:Don BaldridgeReport Date:11 Mar 2024

57

07

97

0

172

1026

CONSTRUCTION EQUIPMENT





GRAPHS

