# LIEBHERR

**CONSTRUCTION EQUIPMENT** 

### LIEBHERR PR766 027906-1681 - Right Final Drive

Sample No: LH0264292

Oil Type: GEAR OIL SAE 90W140

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J Sam	ple Infor	mation			
Sample Number		LH0264292	LH0254477	LH0254552	LH0254258
Sample Date		31 May 2024	01 May 2024	03 Apr 2024	07 Mar 2024
Machine Hours		2848	2148	1518	882
Oil Hours		698	2148	1518	882
Oil Changed		Not Changd	Changed	Not Changd	Not Changd
Sample Status		SEVERE	SEVERE	ABNORMAL	ABNORMAL
Oil Co	ondition	)			
Visc @ 40°C	cSt	<b>345</b>	O 293	O 295	O 298
-4					
Cont	aminati	on			
Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	O 4	O 11	O 13	O 12
Sodium	ppm	01	03	<b>3</b>	0 2
Potassium	ppm	O <1	02	0 <1	02
	ρρ	<b>O</b> 11	<u> </u>	0	0 -
<b>Wea</b>	r Metal:	5			
Iron	ppm	O 34	O 102	O 87	O 69
Copper	ppm	<b>453</b>	0 423	O 234	0 86
Lead	ppm	0<1	0 <1	00	O <1
Tin	ppm	0 11	0 14	0 7	0 2
Aluminum	ppm	<b>0</b> 2	0 1	0 1	0 2
Chromium	ppm	0<1	0 <1	0 <1	0 1
Molybdenum	ppm	O <1	02	O 2	<b>3</b>
Nickel	ppm	<b>O</b> <1	O 0	O 0	O <1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<b>0</b> <1	02	O 2	O 2
Vanadium	ppm	0	0	0	<1
Addi	tives				
Calcium	ppm	<b>9</b>	O 47	O 34	O 41
Magnesium	ppm	<b>0</b> 5	O 4	0 2	0 2
Zinc	ppm	<b>27</b>	O 62	O 42	<b>40</b>
Phosphorus	ppm	<b>1029</b>	O 1203	O 1154	0 1065
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74

78



HEAVY MACHINES INC. 3930 EAST RAINES RD MEMPHIS, TN US 38118 Contact: J. DAVIS JDAVIS@HEAVY.LLC.COM

T:

F: (901)260-2245

#### Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The copper level is severe for time on oil. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot:LEC0051Unique No:11084981Signed:Don BaldridgeReport Date:19 Jun 2024

**86** 

Contact/Location: J. DAVIS - LEC0051

**13** 

**3** 

ppm

ppm

Barium

Boron

# LIEBHERR







### **Graphs**

