LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR R946 035496-1150 - Swing Drive

Sample No: LH0254595

Oil Type: LIEBHERR GEAR BASIC 90 LS

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U SAM	PLE INF	ORMATION			
Sample Number		LH0254595	LH0244367	LHMC124672	
Sample Date		20 Aug 2023	07 Apr 2023	20 Nov 2017	
Machine Hours		1809	13412	500	
Oil Hours		0	1000	0	
Oil Changed		Changed	Changed	Changed	
Sample Status		SEVERE	SEVERE	ABNORMAL	
OILC	ONDITIO	ON			
Visc @ 40°C	cSt	257	160	281.0	
CON	TAMINA	ATION			
Water	%	4.01	0.395	0.886	
Silicon	ppm	4	9	6	
Sodium	ppm	97	<1	3	
Potassium	ppm	106	O 0	6	
WEA	R META	LS			
Iron	mag	2800	1768	O 1238	

Iron	ppm	2800	1768	1238	
Copper	ppm	955	1333	O 81	
Lead	ppm	9	O 0	<1	
Tin	ppm	28	2 0	O 0	
Aluminum	ppm	5	4	O 2	
Chromium	ppm	29	<u> </u>	9	
Molybdenum	ppm	4	O 1	0	
Nickel	ppm	12	O 4	4	
Titanium	ppm	<1	<1	<1	
Silver	ppm	0	0	0	
Manganese	ppm	20	O 11	10	
Vanadium	ppm	<1	0	0	

ADDITIVES	
Calcium ppm ○ 58 ○ 32 96	
Magnesium	
Zinc ppm 28 58 46	
Phosphorus ppm 2844 0 608 1842	
Barium	
Boron ppm Q 23	





FINKBINER EQUIPMENT CO. 15 W 400 N FRONTAGE RD

BURR RIDGE, IL

US 60527

Contact: DON FITZGERALD dfitzgerald@finkbiner.com

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Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Bearing and/or bushing wear is indicated. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot:LEC0033Unique No:10615843Signed:Don BaldridgeReport Date:23 Aug 2023

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GRAPHS

