LIEBHERR

CONSTRUCTION EQUIPMENT



[[20230430]] LIEBHERR R934C 020477-027 - Left Final Driv

Sample No: LH0265896

Oil Type: GEAR OIL SAE 80W90

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SAN	APLE INFO	DRMATION		
Sample Number		LH0265896	LH0095233	
Sample Date		16 Aug 2023	06 Oct 2015	
Machine Hours		13977	8200	
Oil Hours		0	0	
Oil Changed		Not Changd	Changed	
Sample Status		SEVERE	NORMAL	
OIL	CONDITIO	ON		
Visc @ 40°C	cSt	98.8	O 151	
-4				
CON	ITAMINA	TION		
	IIAMINA			
Silicon	ppm	<u> </u>	O 4	
Sodium	ppm	45	O <1	
Potassium	ppm	53	O 2	
(Ö)	AR META	16		
W VV EA	AK ME I A			
Iron	ppm	1402	O 26	
Copper	ppm	<u> </u>	O 2	
Lead	ppm	4 4	O <1	
Tin	ppm	4	O <1	
Aluminum	ppm	O 200	O <1	
Chromium	ppm	26	O <1	
Molybdenum	ppm	() <1	O <1	
Nickel	ppm	6	O <1	
Titanium	ppm	8	O 0	
Silver	ppm	<1	0	
Manganese	ppm	16	O <1	
Vanadium	ppm	<1	0	
ADD	ITIVES			
	HILLES			
Calcium	ppm	436	O 111	
Magnesium	ppm	178	O 1	
Zinc	ppm	138	O 13	
Phosphorus	ppm	1359	O 1574	
Barium	ppm	8	O <1	



Orloff Enterprises

410 King Street Winnipeg, MB CA R2W 5H8

Contact: Service Manager

T: F:

Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.Lead ppm levels are severe. Copper ppm levels are abnormal. Aluminum ppm levels are noted. Bearing and/or bushing wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component. Viscosity of sample indicates oil is within SAE 75W90 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: ORLWIN
Unique No: 5630617
Signed: Kevin Marson
Report Date: 23 Aug 2023

71

ppm

Boron

LIEBHERR







GRAPHS

