CONSTRUCTION EQUIPMENT

LIEBHERR R934CEW 030096 (S/N 30095) - Swing Drive

KENDALL NS-MP HYPOID GEAR 80W90

Sample No: LH0235020

Oil Type:

SAMPLE INFORMATION

Sample Number	LH0235020	LH0195435		
Sample Date	27 Oct 2022	20 Apr 2021		
Machine Hours	17569	15200		
Oil Hours	1000	1000		
Oil Changed	Changed	Changed		
Sample Status	SEVERE	ABNORMAL		
OIL CONDITIO	V			
Visc @ 40°C cSt	115	0 134		
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Water	%	NEG	NEG		
Silicon	ppm	0 5	0 11		
Sodium	ppm	0 2	03		
Potassium	maa	02	0 4		

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WEA	R META	LS		
Iron	ppm	0 458	396	
Copper	ppm	661	0 175	
Lead	ppm	0 17	6	
Tin	ppm	08	5	
Aluminum	ppm	◯ <1	◯ <1	
Chromium	ppm	06	0 5	
Molybdenum	ppm	06	○ <1	
Nickel	ppm	○ <1	01	
Titanium	ppm	<1	<1	
Silver	ppm	0	<1	
Manganese	ppm	04	4	
Vanadium	ppm	0	0	



ADD	ITIVES			
Calcium	ppm	<u> </u>	0 19	
Magnesium	ppm	<u> </u>	07	
Zinc	ppm	<u> </u>	21	
Phosphorus	ppm	0 595	581	
Barium	ppm	0 (0	
Boron	ppm	0 15	0 17	





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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. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.Copper and lead ppm levels are severe. Bearing and/or bushing wear is indicated. Free water present. Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

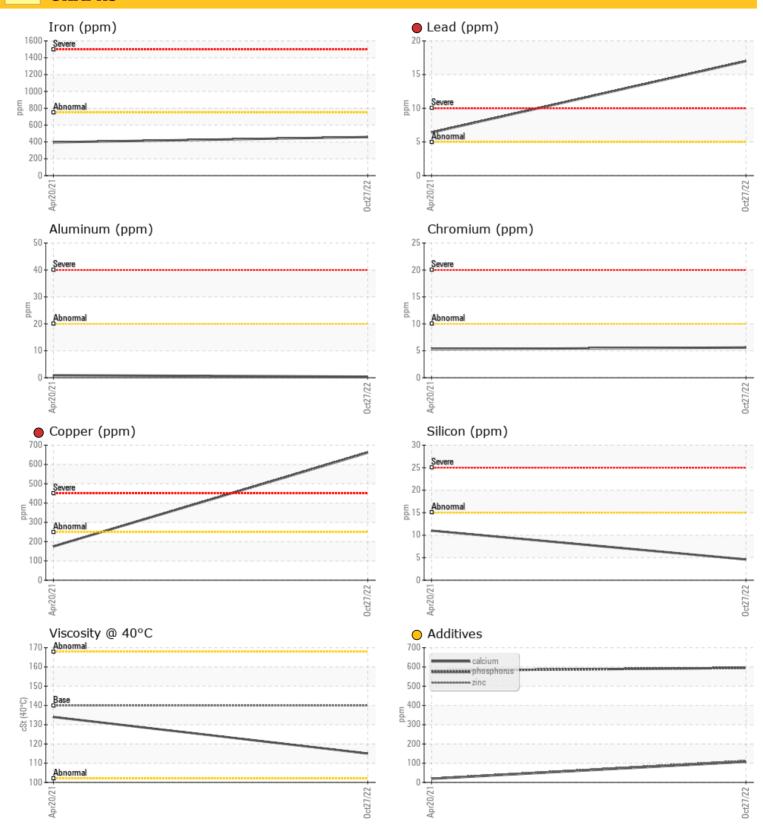
Depot:	DOMBUR
Unique No:	5501462
Signed:	Kevin Marson
Report Date:	13 Dec 2022





GRAPHS

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Submitted By: Trevor Taylor