

LIEBHERR R946 035496-1150 - Left Final Drive

Sample No: LH0254594

Oil Type: LIEBHERR GEAR BASIC 90 LS

SAMPLE INFORMATION

	LH0254594	LH0243560	LHMC72771	
	08 Aug 2023	24 Apr 2023	20 Nov 2017	
	1809	13412	500	
	0	1000	0	
	Changed	Changed	Changed	
	ABNORMAL	ABNORMAL	NORMAL	
ONDITIO	N			
cSt	186	0 313	0 140.9	
	FION			
%		0.089		
ppm	258	0 84	34	
ppm	6	0 4	6	
	cSt CAMINAT	08 Aug 2023 1809 0 Changed ABNORMAL ONDITION cSt 186 AMINATION % ppm 258	08 Aug 2023 24 Apr 2023 1809 13412 0 1000 Changed Changed ABNORMAL ABNORMAL	08 Aug 2023 24 Apr 2023 20 Nov 2017 1809 13412 500 0 1000 0 Changed Changed Changed ABNORMAL ABNORMAL NORMAL ONDITION CSt 186 313 *AMINATION ************************************

Potassium	ppm	0 24	3	0 12	
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O WE	AR META	LS			
Iron	ppm	088 🔘	0 562	0 162	
Copper	ppm	0 2	29	◯ <1	
Lead	ppm	○ <1	0	0	
Tin	ppm	0	○ <1	0	
Aluminum	ppm	 54	0 21	8	
Chromium	ppm	08	0 22	2	
Molybdenum	ppm	○ <1	2	0	
Nickel	ppm	04	0 2	1	
Titanium	ppm	3	<1	<1	
Silver	ppm	0	0	0	
Manganese	ppm	0 10	9	5	
Vanadium	maa	<1	0	0	

٥ **ADDITIVES** Calcium 0 127 ppm 96 ○ 30 Magnesium 50 13 ppm 031 Zinc 0 41 178 ppm 281 Phosphorus ppm 0 2225 1338 Barium 0 $\bigcirc 0$ ppm Boron ppm ○ <1 0 18





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Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.Gear wear is indicated. All other component wear rates are normal. Elemental levels of silicon (Si) and aluminum (AI) indicate aluminasilicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

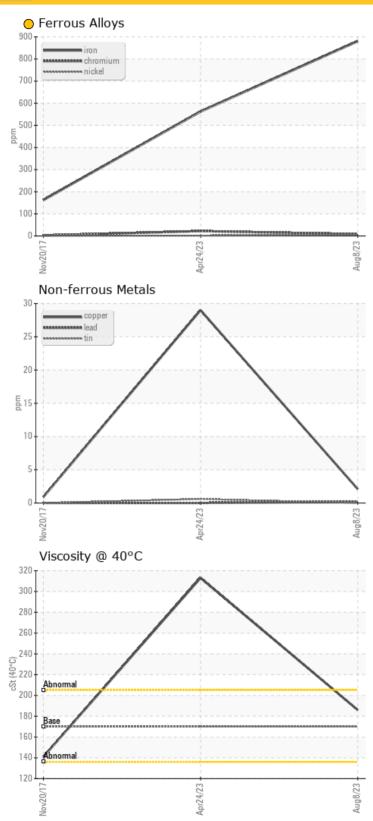
Depot:	LEC0033
Unique No:	10616955
Signed:	Don Baldridge
Report Date:	24 Aug 2023







GRAPHS



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