LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR R920 043304-1705 - Right Final Drive

Sample No: LH0254111

Oil Type: LIEBHERR GEAR BASIC 90 LS

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U SAN	IPLE INFO	ORMATION			
Sample Number		LH0254111	LH0207419	LHMC129104	LHMC121337
Sample Date		20 Apr 2023	15 Jul 2022	28 Jun 2018	18 Sep 2017
Machine Hours		3738	3190	1040	516
Oil Hours		548	0	505	516
Oil Changed		Changed	Not Changd	Changed	Changed
Sample Status		SEVERE	ABNORMAL	SEVERE	NORMAL
A					
OIL	CONDITION	ON			
Visc @ 40°C	cSt	349	359	O 198.6	192.9
CON	TAMINA	ATION			
Silicon	ppm	445	O 92	634	O 15
Sodium	ppm	4	0 2	0 8	3
Potassium	ppm	23	0 8	O 51	0 2
	AR META				
Iron	ppm	O 1315	355	0 789	O 73
Copper	ppm	○ <1	O <1	O <1	O <1
Lead	ppm	0 0	O <1	0	0
Tin	ppm	0 0	0	0	0
Aluminum	ppm	O 89	<u> </u>	<u> </u>	O 6
Chromium	ppm	<u> </u>	O 4	8	O 1
Molybdenum	ppm	01	<1	0	0
Nickel	ppm	4	<1	2	0
Titanium	ppm	7	2	O 15	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	15	4	6	1
Vanadium	ppm	<1	0	<1	0
ADD	ITIVES				
Calcium	ppm	40	89	42	11
Magnesium	ppm	11	4	21	5
Zinc	ppm	20	36	14	9
Phosphorus	ppm	1342	1175	2002	2047
Barium	ppm	0 0	0	2	1
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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. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. The oil viscosity is higher than normal. Confirm oil type. The oil is no longer serviceable due to the presence of contaminants.

Depot:ACEMANUnique No:10550487Signed:Sean FeltonReport Date:12 Jul 2023

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ppm

Boron

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GRAPHS

