LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR LH50 1216-116574 - Front Left Wheel Hub

Sample No: LH0171137

Oil Type: GEAR OIL SAE 80W90

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Ō SAM	PLE INFO	DRMATION			
Sample Number		LH0171137	LH0171123	LH0171109	LH0171179
Sample Date		29 Aug 2023	27 Apr 2023	27 Jan 2023	03 Dec 2021
Machine Hours		17910	16762	14930	8820
Oil Hours		0	0	0	0
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL	NORMAL
oampic otatus		ADITOTIWAL	ADINOTIVIAL	ADITOTIVIAL	NOTIVIAL
A					
OILC	ONDITIO	ON			
Visc @ 40°C	cSt	143	O 163	156	O 168
all de					
CON	TAMINA	TION			
			0.01		
Silicon	ppm	16	O 21	0 8	0 8
Sodium	ppm	0 8	0 6	0 2	0 2
Potassium	ppm	1	3	<1	O <1
◎ WEA					
WEA	R META	LS			
Iron	ppm	596	608	o 508	O 269
Copper	ppm	43	36	O 31	O 71
Lead	ppm	0	O 0	O <1	O <1
Tin	ppm	0	O 0	O 0	O <1
Aluminum	ppm	6	O 7	O 2	3
Chromium	ppm	3	3	2	 <1
Molybdenum	ppm	1	O <1	<1	<1
Nickel	ppm	0 <1	O <1	O 1	O <1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	9	0 8	6	4
Vanadium	ppm	<1	0	0	0
ADD	ITIVES				
Calcium	ppm	25	1 4	13	12
Magnesium	ppm	O 2	O 4	2	2
Zinc	ppm	O 56	O 54	53	52
Phosphorus	ppm	O 1367	O 2041	1488	1723
Barium	ppm	0	00	0	0
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BOISE WHITE PAPER

3RD AVE AND HWY 11, 400 2ND ST INTERNATIONAL FALLS, MN US 56649

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Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot:BOIINTUnique No:10633792Signed:Sean FeltonReport Date:08 Sep 2023

37

ppm

Boron

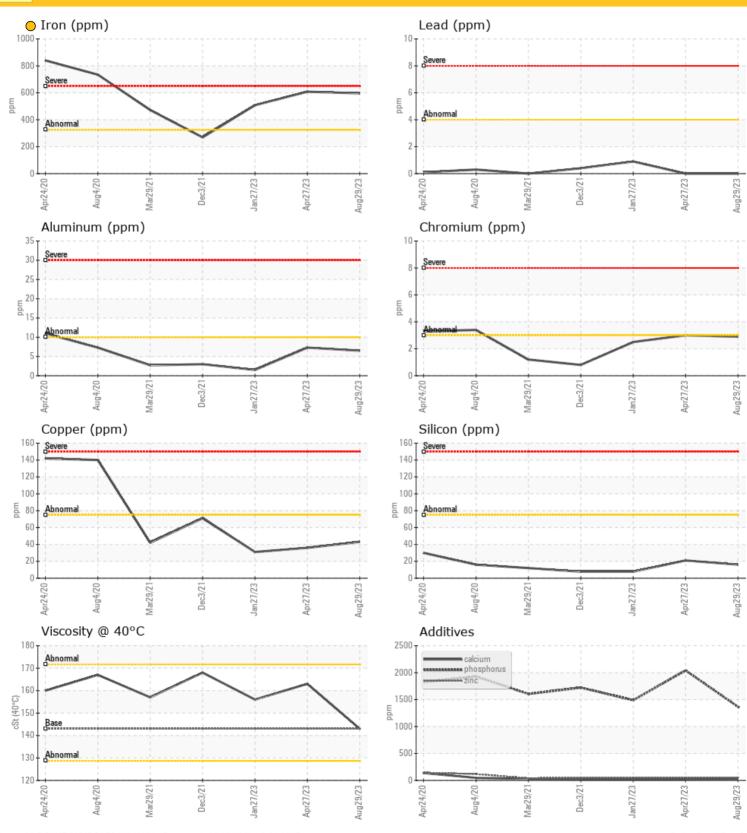
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GRAPHS



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Submitted By: ?