CONSTRUCTION EQUIPMENT

LIEBHERR LH50 1203-77107 - Rear Differential

Sample No: LH0220729

Oil Type: GEAR OIL SAE 80W90

SAMPLE INFORMATION

Sample Number	LH0220729	LH0272544	LH0254744	LH0243167
Sample Date	15 Dec 2023	28 Nov 2023	16 Jun 2023	22 Dec 2022
Machine Hours	20218	20037	18994	17940
Oil Hours	838	0	0	0
Oil Changed	Not Changd	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL
OIL COND	ITION			
Visc @ 40°C cSt	0 119	0 119	128	0 134

	NTAMIN/	ATION				
Water	%	NEG	NEG	NEG	NEG	
Silicon	ppm	01	0 4	0 12	0 11	
Sodium	ppm	0 🔘	0	○ <1	0	
Potassium	ppm	○ <1	0	01	03	

WEAK	R METALS				
Iron	ppm	07	◯ 41	61	5 9
Copper	ppm	0	02	2	3
Lead	ppm	0	0	0	0
Tin	ppm	0	0	○ <1	0
Aluminum	ppm	0	0	0 1	2
Chromium	ppm	0	0	0	○ <1
Molybdenum	ppm	0	0	○ <1	3
Nickel	ppm	0	0	○ <1	0
Titanium	ppm	<1	1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	○ <1	○ <1	○ <1
Vanadium	ppm	0	0	0	0

0 **ADDITIVES** Calcium ppm 38 0 48 64 85 Magnesium 03 0 10 8 🔘 0 12 ppm 0 22 Zinc 031 040 0 17 ppm 0 840 Phosphorus ppm 0 777 0734 0783 Barium 0 0 ppm 0 ○ <1 Boron ppm 03 05 0 12 0 21





AMERICAN STATE EQUIPMENT CO.

2400 NORTH 14TH AVENUE WAUSAU, WI US 54401 Contact: CHRIS BARTNIK cbartnik@amstate.com T: (715)675-6900 F: (715)675-9748

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.

Depot:	LEC0008
Unique No:	10807063
Signed:	Jonathan Hester
Report Date:	29 Dec 2023

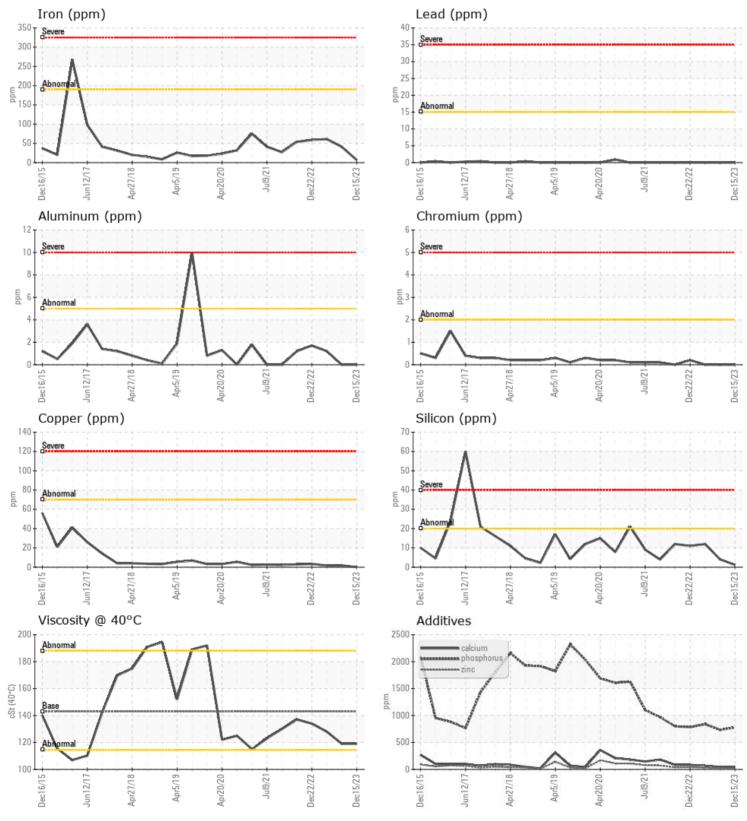
Contact/Location: CHRIS BARTNIK - LEC0008





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Report Id: LEC0008 [WUSCAR] 06046455 (Generated: 12/29/2023 10:55:58) Rev: 1

Contact/Location: CHRIS BARTNIK - LEC0008