LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR LH50 1203-77107 - Front Differential

Sample No: LH0272551

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90

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SAMI	PLE INFO	DRMATION				
Sample Number		LH0272551	LH0254740	LH0243169	LH0229284	
Sample Date		28 Nov 2023	16 Jun 2023	22 Dec 2022	31 May 2022	
Machine Hours		20037	18994	17940	16365	
Oil Hours		0	0	0	0	
Oil Changed		Changed	Changed	Changed	Changed	
Sample Status		NORMAL	NORMAL	NORMAL	NORMAL	
OIL CONDITION						
Visc @ 40°C	cSt	120	O 131	133	140	
CONTAMINATION						

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Water	%	NEG	NEG	NEG	NEG	
Silicon	ppm	5	0	O 1	O <1	
Sodium	ppm	0	O <1	0	O <1	
Potassium	ppm	0	O <1	3	O 1	

WEA	R METALS				
Iron	ppm	8	O 2	6	02
Copper	ppm	10	O 1	4	1
Lead	ppm	0	O 0	O 0	0
Tin	ppm	0	O 0	0	0
Aluminum	ppm	0	O <1	O <1	0
Chromium	ppm	0	O 0	O 0	0
Molybdenum	ppm	0	O <1	O 1	O <1
Nickel	ppm	0	O 0	0	O <1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	O <1	O <1	O <1
Vanadium	ppm	0	0	0	0

Vanadium	ppm	0	0	0	0	
ADDITIVES						
Calcium	ppm	42	O 41	7 0	○ 57	
Magnesium	ppm	10	O 5	10	08	
Zinc	ppm	19	1 3	O 27	17	
Phosphorus	ppm	758	O 855	780	O 774	
Barium	ppm	0	0	O 0	O 0	
Boron	ppm	2	O 7	17	O 19	



AMERICAN STATE EQUIPMENT CO.

2400 NORTH 14TH AVENUE WAUSAU, WI US 54401 Contact: CHRIS BARTNIK

Contact: CHHIS BAHTNIK cbartnik@amstate.com
T: (715)675-6900
F: (715)675-9748

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

 Depot:
 LEC0008

 Unique No:
 10781656

 Signed:
 Sean Felton

 Report Date:
 14 Dec 2023

Contact/Location: CHRIS BARTNIK - LEC0008

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GRAPHS

