LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR LH50M 1216-108671 - Front Differential

Sample No: LH0258755

Oil Type: GEAR OIL SAE 80W90

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SAN	IPLE INFO	ORMATION				
Sample Number		LH0258755	LH0263996	LH0243414	LH0254782	
Sample Date		23 Feb 2024	14 Dec 2023	05 Sep 2023	12 Apr 2023	
Machine Hours		20036	19125	17864	16979	
Oil Hours		0	0	0	0	
Oil Changed		Changed	Changed	Changed	Changed	
Sample Status		NORMAL	NORMAL	NORMAL	NORMAL	
OIL CONDITION						
Visc @ 40°C	cSt	119	O 121	O 126	O 138	

CONT	AMINATIO	m				
Water	%	NEG	NEG	NEG	NEG	
Silicon	ppm	0 <1	O <1	O <1	O <1	
Sodium	ppm	2	O <1	O <1	O <1	
Potassium	ppm	1	0	0	0	

₩EA	R META	LS			
Iron	ppm	0	O 0	O 2	O 2
Copper	ppm	0	O <1	<1	O 1
Lead	ppm	0	O 0	O	O 0
Tin	ppm	○ <1	0	0	0
Aluminum	ppm	0	0	0	O 0
Chromium	ppm	0	0	O 0	O 0
Molybdenum	ppm	0	0	0	
Nickel	ppm	○ <1	O 0	0	O 0
Titanium	ppm	0	<1	1	0
Silver	ppm	0	O 0	O 0	O 0
Manganese	ppm	 <1		O 0	
Vanadium	ppm	0	0	0	<1

Vanadium	ppm	0	0	0	<1	
0						
ADDITIVES						
Calcium	ppm	35	43	46	46	
Magnesium	ppm	5	1 3	18	O 7	
Zinc	ppm	15	O 22	O 22	20	
Phosphorus	ppm	824	843	O 619	O 702	
Barium	ppm	0	O 0	O 0	O 0	
Boron	ppm	0	<1	O 7	0 8	



AMERICAN STATE EQUIPMENT CO.

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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: 10915875
Signed: Jonathan Hester
Report Date: 11 Mar 2024

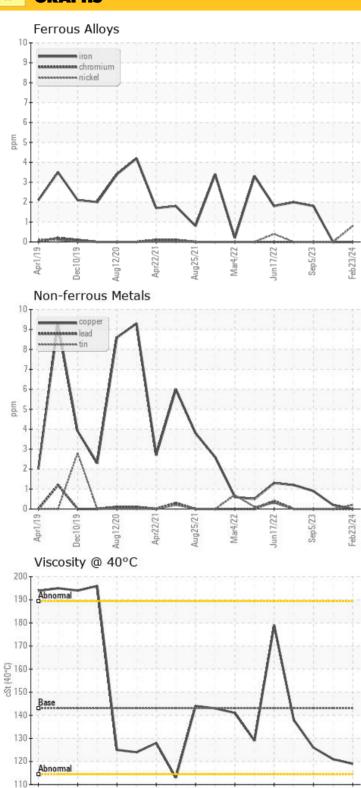
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GRAPHS



Apr22/21

Mar4/22

Aug12/20

Apr1/19

Dec10/19