LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR LH50 1216-116574 - Swing Drive

Sample No: LH0272160

Oil Type: GEAR OIL SAE 80W90

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SAM	PLE INFO	RMATION				
Sample Number		LH0272160	LH0171149	LH0171121	LH0171107	
Sample Date		20 Dec 2023	29 Aug 2023	27 Apr 2023	27 Jan 2023	
Machine Hours		19776	17910	16726	14930	
Oil Hours		0	0	0	0	
Oil Changed		Changed	Changed	Changed	Changed	
Sample Status		NORMAL	NORMAL	NORMAL	ABNORMAL	
OIL CONDITION						
Visc @ 40°C	cSt	142	O 175	175	O 149	
-4						
CONT	TAMINA	TION				
Water	%	NEG	NEG	NEG	NEG	
Cilicon	nnm	O 2	O 5	0 2	0	

CONTAMINATION						
Water	%	NEG	NEG	NEG	NEG	
Silicon	ppm	2		O 2	8	
Sodium	ppm	2	3	O 2	4	
Potassium	ppm	0	0	O 2	O 0	

WEAR	R METALS				
Iron	ppm	427	O 1117	457	O 1029
Copper	ppm	107	428	177	0 812
Lead	ppm	0	4	O 0	<u>26</u>
Tin	ppm	7	25	O 15	6 7
Aluminum	ppm	0	O 2	O <1	O <1
Chromium	ppm	1	3	O <1	4
Molybdenum	ppm	3	O <1	O 0	<1
Nickel	ppm	0	O <1	O 0	O 1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	3	8	3	8
Vanadium	ppm	0	<1	0	0

Vanadium	ppm	0	<1	Ü	0	
ADDITIVES						
Calcium	ppm	27	○ 28	1 6	95	
Magnesium	ppm	8	O 4	10	45	
Zinc	ppm	23	O 24	27	140	
Phosphorus	ppm	1151	O 2112	O 2266	2038	
Barium	ppm	0	0	O 0	10	
Boron	ppm	8	O 22	○ 20	36	



BOISE WHITE PAPER

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Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm.

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:BOIINTUnique No:10844583Signed:Wes DavisReport Date:23 Jan 2024

CONSTRUCTION EQUIPMENT





GRAPHS

