

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60 115240-1529 - Swing Drive

Sample No: LHMC122143

Oil Type: LIEBHERR GEAR BASIC 90 LS



Sample Information

Sample Number	LHMC122143	LH0272834	LHMC104499	LHMC116230
Sample Date	17 Apr 2024	20 Dec 2023	22 Mar 2023	29 Sep 2022
Machine Hours	5177	4719	3682	2906
Oil Hours	485	686	0	0
Oil Changed	Changed	Changed	Not Changd	Not Changd
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

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Oil Condition

Visc @ 40°C	cSt	● 208	● 168	● 161	128
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Contamination

Water	%	● 0.556	NEG	NEG	NEG
Silicon	ppm	● 6	● 2	● 3	● 5
Sodium	ppm	● 29	● <1	● 0	● 9
Potassium	ppm	● 2	● 1	● <1	● <1



Wear Metals

Iron	ppm	● 347	● 274	● 16	● 182
Copper	ppm	● 89	● 25	● 2	● 44
Lead	ppm	● 0	● <1	● <1	● 0
Tin	ppm	● 4	● 3	● 0	● <1
Aluminum	ppm	● <1	● <1	● 0	● 1
Chromium	ppm	● 3	● 4	● 0	● <1
Molybdenum	ppm	● 7	● 3	● 0	● 2
Nickel	ppm	● 1	● <1	● 0	● 0
Titanium	ppm	● 0	● <1	● 0	● 0
Silver	ppm	● <1	● 0	● 0	● 0
Manganese	ppm	● 3	● 2	● <1	● 2
Vanadium	ppm	● 0	● 0	● 0	● <1



Additives

Calcium	ppm	● 93	18	● 147	● 2
Magnesium	ppm	● 9	● 2	● 2	● 4
Zinc	ppm	● 70	● 6	● 150	● 12
Phosphorus	ppm	● 2059	● 1726	887	● 511
Barium	ppm	● 3	● 0	● 0	● 0
Boron	ppm	● 12	● 7	● 1	● 0

Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Moderate concentration of visible metal present. All component wear rates are normal. There is a moderate concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

Depot: DAVLORVA
 Unique No: 10992562
 Signed: Jonathan Hester
 Report Date: 25 Apr 2024



Graphs

