LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR LH60M 117421-1217 - Swing Drive

Sample No: LH0244342

Oil Type: LIEBHERR GEAR BASIC 90 LS

Sample Number		LH0244342	LHMC144492	LH0247841	LH0229343
Sample Date		27 Jun 2023	15 Mar 2023	24 Feb 2023	13 Jun 2022
Machine Hours		4239	3581	3454	1958
Oil Hours		500	126	1000	500
Oil Changed		Changed	Not Changd	Changed	Changed
Sample Status		ABNORMAL	MARGINAL	SEVERE	SEVERE
	ONDITIO		W II I I I I I I I I I I I I I I I I I	OL VEITE	OLVENE
/isc @ 40°C	cSt	198	O 211	<u>268</u>	223
	TAMINA		0.0440	0.1.10	0.1.10
Nater	%	0.423	0.149	0 1.48	0 1.18
Silicon	ppm	0 4	0 1	o 5	3
Sodium	ppm	0	O 0	O <1	O 2
Potassium	ppm	1	O <1	O <1	0
	R META				
lron	ppm	538	O 292	1183	0 757
Copper	ppm	55	O 27	179	O 52
Lead	ppm	0	0	0 <1	O <1
Tin	ppm	2	O <1	O 7	6
Aluminum	ppm	0 <1	O 2	O 2	O 2
Chromium	ppm	0 7	3	O 13	8
Molybdenum	ppm	0 <1	0 <1	0 <1	O <1
Nickel	ppm	0 1	O <1	O 1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	5	3	O 10	6
Vanadium	ppm	0	0	0	0

02

05

0

02

2250



TT & E IRON 1529 WEST GARNER RD GARNER, NC US 27529 Contact: MICHAEL STANCIL culaterprowler@aol.com T: (919)524-4326 F:

Diagnosis

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Gear wear is indicated. There is a moderate concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

Depot:TTENEWUnique No:10561664Signed:Sean FeltonReport Date:19 Jul 2023

36

0 21

0

2064

18

2118

5

0

8

0

12

2015

ADDITIVES

mqq

ppm

ppm

ppm

ppm

ppm

Calcium

Zinc

Barium

Boron

Magnesium

Phosphorus

CONSTRUCTION EQUIPMENT





GRAPHS

