

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH60C 1528-132602 - Left Final Drive

Sample No: LH0210067

Oil Type: TEXACO HAVOLINE GEAR OIL 80W90



#### STAIMAN RECYCLING

201 HEPBURN ST  
WILLIAMSPORT, PA  
US 17701

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#### SAMPLE INFORMATION

Sample Number	LH0210067	LH0210058	LH0210049	LH0210040
Sample Date	22 Sep 2023	04 Apr 2023	06 Jan 2023	24 May 2022
Machine Hours	5266	4009	3384	1995
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	133	141	174	148



#### CONTAMINATION

Element	ppm	194	324	253	145
Silicon	ppm				
Sodium	ppm	3	5	4	5
Potassium	ppm	13	26	21	12



#### WEAR METALS

Element	ppm	575	722	592	384
Iron	ppm				
Copper	ppm	24	28	28	33
Lead	ppm	2	6	5	4
Tin	ppm	1	1	2	2
Aluminum	ppm	44	91	67	36
Chromium	ppm	6	6	5	4
Molybdenum	ppm	<1	2	6	18
Nickel	ppm	4	6	4	<1
Titanium	ppm	4	7	7	5
Silver	ppm	0	0	0	4
Manganese	ppm	5	6	6	4
Vanadium	ppm	0	<1	<1	0



#### ADDITIVES

Element	ppm	215	403	352	217
Calcium	ppm				
Magnesium	ppm	26	46	43	49
Zinc	ppm	22	29	57	60
Phosphorus	ppm	489	427	477	835
Barium	ppm	0	2	0	8
Boron	ppm	3	7	17	5

#### Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

Depot: STAWILLH  
Unique No: 10672315  
Signed: Don Baldrige  
Report Date: 03 Oct 2023



### GRAPHS

