

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R936 048753-1780 - Swing Drive

Sample No: LH0220964

Oil Type: LIEBHERR GEAR BASIC 90 LS



LIEBHERR EQUIPMENT SOURCE
 4100 CHESTNUT AVENUE
 NEWPORT NEWS, VA
 US 23607
 Contact: MICHAEL SAULSBERRY
 michael.saulsberry@liebherr.com
 T:
 F: (757)298-8700



Sample Information

Sample Number	LH0220964	LH0173882	---	---
Sample Date	18 Apr 2024	01 Jul 2021	---	---
Machine Hours	1977	844	---	---
Oil Hours	0	844	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	SEVERE	NORMAL	---	---



Oil Condition

Visc @ 40°C	cSt	268	202	---	---
-------------	-----	-----	-----	-----	-----



Contamination

Water	%	2.35	NEG	---	---
Silicon	ppm	6	<1	---	---
Sodium	ppm	1	<1	---	---
Potassium	ppm	0	<1	---	---



Wear Metals

Iron	ppm	1128	552	---	---
Copper	ppm	71	13	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	4	2	---	---
Aluminum	ppm	<1	0	---	---
Chromium	ppm	8	3	---	---
Molybdenum	ppm	0	<1	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	9	4	---	---
Vanadium	ppm	0	0	---	---



Additives

Calcium	ppm	18	8	---	---
Magnesium	ppm	0	0	---	---
Zinc	ppm	18	31	---	---
Phosphorus	ppm	2509	1430	---	---
Barium	ppm	0	7	---	---
Boron	ppm	4	7	---	---

Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Gear wear is indicated. All other component wear rates are normal. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: LIEBHERRUS
 Unique No: 11004477
 Signed: Don Baldrige
 Report Date: 01 May 2024



Graphs

