

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R938 1650-50726 - Swing Drive

Sample No: LH0244729

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0244729	LH0236513	---	---
Sample Date	13 Oct 2023	01 Aug 2022	---	---
Machine Hours	973	0	---	---
Oil Hours	0	516	---	---
Oil Changed	Not Chngd	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

DIEHL AND NUEMAIER

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OIL CONDITION

Visc @ 40°C	cSt	135	201	---	---
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CONTAMINATION

Silicon	ppm	<1	<1	---	---
Sodium	ppm	<1	5	---	---
Potassium	ppm	2	0	---	---



WEAR METALS

Iron	ppm	52	74	---	---
Copper	ppm	<1	0	---	---
Lead	ppm	0	0	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	<1	1	---	---
Chromium	ppm	<1	3	---	---
Molybdenum	ppm	5	<1	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	2	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	80	11	---	---
Magnesium	ppm	32	<1	---	---
Zinc	ppm	26	10	---	---
Phosphorus	ppm	822	1525	---	---
Barium	ppm	0	15	---	---
Boron	ppm	27	2	---	---

Diagnosis

Resample at the next service interval to monitor. 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: DIEDEF
Unique No: 10701562
Signed: Doug Bogart
Report Date: 20 Oct 2023



GRAPHS

