

LIEBHERR

CONSTRUCTION EQUIPMENT



[(364849)] LIEBHERR R934 053396-1487 - Swing Drive

Sample No: LH0219933

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0219933	LH	---	---
Sample Date	15 Mar 2024	09 Feb 2022	---	---
Machine Hours	1995	0	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

HUBERT & FILS

474 ROUTE 105
BOIS-FRANC, QC
CA J9E 3A9

Contact: Eric Brisebois
ericbrisebois99@gmail.com

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OIL CONDITION

Visc @ 40°C	cSt	106	● 203	---	---
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CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	● 2	● 3	---	---
Sodium	ppm	● 2	● 5	---	---
Potassium	ppm	● <1	● 2	---	---



WEAR METALS

Iron	ppm	● 600	● 391	---	---
Copper	ppm	● <1	● <1	---	---
Lead	ppm	● 0	● <1	---	---
Tin	ppm	● 0	● 0	---	---
Aluminum	ppm	● 0	● <1	---	---
Chromium	ppm	● 8	● 8	---	---
Molybdenum	ppm	● 0	● <1	---	---
Nickel	ppm	● 0	● <1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	● 5	● 6	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	● 13	● 19	---	---
Magnesium	ppm	● 2	● <1	---	---
Zinc	ppm	22	● 16	---	---
Phosphorus	ppm	1196	● 1599	---	---
Barium	ppm	● 3	● 12	---	---
Boron	ppm	208	● 12	---	---

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Depot: HUBBOI
Unique No: 5750478
Signed: Kevin Marson
Report Date: 28 Mar 2024



GRAPHS

