

LIEBHERR

CONSTRUCTION EQUIPMENT



[(340369)] LIEBHERR R920 045718-1705 - Left Final Drive

Sample No: LH0274847

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0274847	LH0195626	---	---
Sample Date	06 Oct 2023	12 Jul 2022	---	---
Machine Hours	4924	2793	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---

CLOUTHIER VENTURES LTD.
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 CA K8A 0A6
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OIL CONDITION

Visc @ 40°C	cSt	90.8	91.7	---	---
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CONTAMINATION

Silicon	ppm	54	18	---	---
Sodium	ppm	4	2	---	---
Potassium	ppm	5	2	---	---



WEAR METALS

Iron	ppm	176	67	---	---
Copper	ppm	<1	0	---	---
Lead	ppm	0	0	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	14	4	---	---
Chromium	ppm	2	<1	---	---
Molybdenum	ppm	0	0	---	---
Nickel	ppm	<1	0	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	1	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	15	15	---	---
Magnesium	ppm	5	6	---	---
Zinc	ppm	25	12	---	---
Phosphorus	ppm	1292	1274	---	---
Barium	ppm	1	<1	---	---
Boron	ppm	302	288	---	---

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: CLOPEM
 Unique No: 5657774
 Signed: Wes Davis
 Report Date: 12 Oct 2023



GRAPHS

