

LIEBHERR

CONSTRUCTION EQUIPMENT



113718-1216 - Splitter Box

Sample No: LH

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH	LH0251199	LH0234887	LH
Sample Date	30 Oct 2023	23 Feb 2023	22 Jul 2022	07 Feb 2022
Machine Hours	5676	4729	4000	0
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	MARGINAL

American Iron and Metal

2555 Sheffield Road
Ottawa, ON
CA K1B 3V6
Contact: Dan Dupelle
ddupelle@aim-rg.com
T: (613)228-9380
F: (613)745-0692



OIL CONDITION

Visc @ 40°C	cSt	172	173	164	142
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CONTAMINATION

Silicon	ppm	2	1	1	2
Sodium	ppm	2	1	1	1
Potassium	ppm	0	<1	<1	3



WEAR METALS

Iron	ppm	12	15	24	66
Copper	ppm	1	<1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	<1	<1	1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	1	3
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	26	22	23	29
Magnesium	ppm	1	1	1	<1
Zinc	ppm	35	22	21	26
Phosphorus	ppm	2222	2388	2154	2091
Barium	ppm	<1	0	0	0
Boron	ppm	14	16	36	79

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: BAKOTT
Unique No: 5671778
Signed: Wes Davis
Report Date: 08 Nov 2023



GRAPHS

