

LIEBHERR

CONSTRUCTION EQUIPMENT



116431-1217 - Splitter Box

Sample No: LH0277752

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0277752	LH0270563	LH0247164	LH0153875
Sample Date	08 Jan 2024	25 Sep 2023	09 May 2023	14 Dec 2022
Machine Hours	8104	7608	7133	6588
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

American Iron and Metal

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OIL CONDITION

Visc @ 40°C	cSt	77.1	88.6	102	122
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	2	4	5	2
Sodium	ppm	1	1	2	1
Potassium	ppm	1	1	<1	<1



WEAR METALS

Iron	ppm	29	39	36	21
Copper	ppm	1	2	1	<1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	1	1	<1
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	135	165	186	114
Magnesium	ppm	3	2	2	1
Zinc	ppm	224	235	207	105
Phosphorus	ppm	1037	1425	1799	1922
Barium	ppm	0	<1	0	0
Boron	ppm	51	111	61	73

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: 5711759
Signed: Wes Davis
Report Date: 23 Jan 2024



GRAPHS

