

LIEBHERR

CONSTRUCTION EQUIPMENT



113718-1216 - Swing Drive

Sample No: LH0279234

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0279234	LH0234879	LH0203482	LH
Sample Date	16 Jan 2024	22 Jul 2022	18 Aug 2021	06 Apr 2021
Machine Hours	5998	4000	0	0
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	165	163	101	100



CONTAMINATION

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

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.



WEAR METALS

Iron	ppm	200	102	32	59
Copper	ppm	28	20	24	39
Lead	ppm	<1	<1	<1	1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	11	16	6	17
Magnesium	ppm	2	1	2	5
Zinc	ppm	14	8	8	15
Phosphorus	ppm	2097	2096	1281	1286
Barium	ppm	<1	<1	<1	2
Boron	ppm	48	48	313	286

Depot: BAKOTT
Unique No: 5710821
Signed: Wes Davis
Report Date: 18 Jan 2024



GRAPHS

