

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R920 045422-1705 - Right Final Drive

Sample No: LHMC116817

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LHMC116817	LH0229835	LH0217229	LHMC104349
Sample Date	11 Jul 2023	29 Nov 2022	15 Apr 2022	07 Feb 2022
Machine Hours	9805	8143	7593	7059
Oil Hours	1000	500	500	500
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

POTOMAC METALS

42702 DULLES TRADE CT
STERLING, VA
US 20166
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OIL CONDITION

Visc @ 40°C	cSt	213	366	366	362
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CONTAMINATION

Silicon	ppm	5	15	52	46
Sodium	ppm	2	6	6	4
Potassium	ppm	0	4	4	4



WEAR METALS

Iron	ppm	45	80	138	118
Copper	ppm	0	<1	<1	<1
Lead	ppm	0	0	<1	0
Tin	ppm	0	0	0	0
Aluminum	ppm	0	5	18	13
Chromium	ppm	0	<1	2	2
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	1	1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	6	6	41	18
Magnesium	ppm	5	2	9	8
Zinc	ppm	11	6	12	4
Phosphorus	ppm	2091	1079	1135	1122
Barium	ppm	6	0	0	0
Boron	ppm	0	1	2	2

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.

Depot: POTSTE
Unique No: 10635926
Signed: Don Baldrige
Report Date: 10 Sep 2023



GRAPHS

