

LIEBHERR

CONSTRUCTION EQUIPMENT



[(340370)] LIEBHERR R945 050696-1866 - Right Final Drive

Sample No: LH0247008

Oil Type: PETRO 90 LS



SAMPLE INFORMATION

Sample Number	LH0247008	LH0242611	LH0222716	LH0202796
Sample Date	27 Jun 2023	15 Mar 2023	28 Apr 2022	10 Aug 2021
Machine Hours	4010	3484	2019	891
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

CLOUTHIER VENTURES LTD.
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OIL CONDITION

Visc @ 40°C	cSt	96.3	92.1	99.8	113
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CONTAMINATION

Silicon	ppm	4	11	2	1
Sodium	ppm	2	1	<1	2
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	15	14	17	13
Copper	ppm	<1	0	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	1	1	<1	<1
Aluminum	ppm	<1	2	<1	0
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	<1	0	<1	0
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	4	0	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	16	11	9	13
Magnesium	ppm	3	2	2	2
Zinc	ppm	15	10	9	10
Phosphorus	ppm	1316	1362	1311	1255
Barium	ppm	0	0	<1	2
Boron	ppm	309	322	301	246

Depot: CLOPEM
Unique No: 5630834
Signed: Wes Davis
Report Date: 23 Aug 2023



GRAPHS

