

LIEBHERR

CONSTRUCTION EQUIPMENT



[(336345)] LIEBHERR L586 060438-1334 - Front Differential

Sample No: LH0278553

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0278553	LH0242715	LH	LH0234398
Sample Date	01 Nov 2023	14 Jan 2023	24 Sep 2022	08 Aug 2022
Machine Hours	6957	5019	6018	3993
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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 1 Terracon Place
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OIL CONDITION

Visc @ 40°C	cSt	173	186	179	172
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CONTAMINATION

Silicon	ppm	28	4	4	4
Sodium	ppm	4	2	2	2
Potassium	ppm	2	<1	<1	0



WEAR METALS

Iron	ppm	223	69	104	46
Copper	ppm	68	28	74	35
Lead	ppm	2	<1	2	<1
Tin	ppm	4	2	2	2
Aluminum	ppm	7	<1	1	<1
Chromium	ppm	2	<1	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	3	3	2	2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	85	9	19	16
Magnesium	ppm	28	<1	5	<1
Zinc	ppm	39	28	17	40
Phosphorus	ppm	2317	2466	2433	2308
Barium	ppm	<1	0	0	0
Boron	ppm	1	3	1	5

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: BIRWIN
 Unique No: 5671428
 Signed: Wes Davis
 Report Date: 06 Nov 2023



GRAPHS

