

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 068730 - Front Axle

Sample No: LH0285019

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0285019	LH0266077	LH0251481	LH0242383
Sample Date	11 Feb 2024	23 Jun 2023	13 Jan 2023	03 Oct 2022
Machine Hours	8094	5380	3543	2067
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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 55 THIRD LINE RD
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OIL CONDITION

Visc @ 40°C	cSt	94.1	157	89.3	94.2
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	3	5	5	6
Sodium	ppm	<1	1	1	2
Potassium	ppm	<1	<1	<1	<1



WEAR METALS

Iron	ppm	93	110	116	94
Copper	ppm	27	23	39	27
Lead	ppm	<1	<1	1	<1
Tin	ppm	2	2	3	2
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	2	3	4
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	10	5	12	17
Magnesium	ppm	1	<1	2	3
Zinc	ppm	16	29	31	30
Phosphorus	ppm	2593	2342	2671	2526
Barium	ppm	0	0	0	0
Boron	ppm	287	65	299	278

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. Viscosity of sample indicates oil is within SAE 75W90 range, advise investigate. The condition of the oil is acceptable for the time in service.

Depot: CGCHAG
Unique No: 5724213
Signed: Kevin Marson
Report Date: 14 Feb 2024



GRAPHS

