

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A944CHD 063266 - Front Left Wheel Hub

Sample No: LH0274446

Oil Type: KENDALL NS-MP HYPOID GEAR 75W90



SAMPLE INFORMATION

Sample Number	LH0274446	LH	LH0130340	LH0123987
Sample Date	04 Aug 2023	21 Mar 2019	13 Jul 2018	28 Feb 2018
Machine Hours	19020	12983	11950	11203
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

Posner Metals

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OIL CONDITION

Visc @ 40°C	cSt	95.5	98.5	94.3	99.6
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CONTAMINATION

Silicon	ppm	3	2	2	3
Sodium	ppm	3	<1	<1	1
Potassium	ppm	<1	<1	0	<1



WEAR METALS

Iron	ppm	36	28	13	25
Copper	ppm	77	35	31	42
Lead	ppm	2	1	1	1
Tin	ppm	0	0	0	0
Aluminum	ppm	2	1	<1	1
Chromium	ppm	<1	0	0	<1
Molybdenum	ppm	0	<1	<1	0
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	6	0	0
Manganese	ppm	3	2	1	2
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	2	7	7	0
Magnesium	ppm	<1	3	3	<1
Zinc	ppm	45	24	23	25
Phosphorus	ppm	1532	1235	1314	1481
Barium	ppm	<1	<1	0	0
Boron	ppm	251	317	303	250

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Copper ppm levels are abnormal. Bearing and/or bushing wear is indicated. The water content is negligible. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: POSHAM
Unique No: 5619972
Signed: Kevin Marson
Report Date: 10 Aug 2023



GRAPHS

