LIEBHERR

CONSTRUCTION EQUIPMENT



Sample No: LH0244829

Oil Type: GEAR OIL SAE 80W90

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Sam	ple Infor	mation			
Sample Number		LH0244829	LHMC122781	LHMC103210	
Sample Date		23 Apr 2024	04 Aug 2023	11 May 2023	
Machine Hours		13598	12105	11583	
Oil Hours		1500	0	0	
Oil Changed		Not Changd	Not Changd	Not Changd	
Sample Status		SEVERE	SEVERE	ABNORMAL	
<u> </u>					
Oil Co	ondition				
Visc @ 40°C	cSt	148	224	O 199	
Cont	aminatio				
			0.0.500	0.0001	
Water	%	NEG	0.598	0.364	
Silicon	ppm	5	0 4	3	
Sodium	ppm	0 0	0 4	01	
Potassium	ppm	2	0 1	O <1	
Wea	r Metals	729	① 1458	O 779	
Copper	ppm	414	539	O 314	
Lead	ppm	01	O 5	00	
Tin	ppm	8	<u> </u>	0 6	
Aluminum	ppm	O 2	0 2	0 0	
Chromium	ppm	9	<u>0</u> 16	0 9	
Molybdenum	ppm	2	02	0 2	
Nickel	ppm	2	02	0 1	
Titanium	ppm	<1	0	0	
Silver	ppm	<1	0	0	
Manganese	ppm	6	O 12	7	
Vanadium	ppm	<1	<1	0	
TIII.					
Addi	tives				
Calcium	ppm	26	3 7	3 5	
Magnesium	ppm	5	O 21	O 15	
Zinc	ppm	30	O 82	O 83	
Phosphorus	ppm	749	O 2150	O 1846	
Barium	ppm	0 0	00	00	
Boron	ppm	O <1	0 <1	3	
	1-1-			9	

OSCAR WINSKI CO. INC

2407 N. 9TH STREET LAFAYETTE, IN US 47904

Contact: JAYSON FRAZIER frazierj@oscarwinski.com T: (765)376-1230

F: x:

Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Bearing and/or gear wear is indicated. 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: OSCLAF
Unique No: 10995344
Signed: Sean Felton
Report Date: 26 Apr 2024

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Graphs

