LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR R934CEW 031290-027 - Swing Drive

Sample No: LH0178198

Oil Type: GEAR OIL SAE 80W90

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Ō Sam	ple Info	rmation			
Sample Number	-	LH0178198	LH0261469	LH0224446	LH0195427
Sample Date		02 Apr 2024	21 Jun 2023	16 May 2022	16 Jun 2021
Machine Hours		18000	17080	16000	14940
Oil Hours		1000	1080	560	1000
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL
A Status		71311011111712	7.13.1.01.11111.12	7.13.101.1111.12	7.5.101.1111.12
016	ondition				
Visc @ 40°C	cSt	136	O 127	O 123	O 125
and the second					
Cont	taminati	on			
Water	%	NEG	NEG	0.896	0.522
Silicon	ppm	0 8	0 8	0 7	O 4
Sodium	ppm	0 <1	0 <1	0 <1	0 <1
Potassium	ppm	01	0 2	0 2	0 <1
- Marie					
(Wed	ar Metal	S			
Iron	ppm	499	O 638	O 917	O 986
Copper	ppm	0 177	O 326	333	O 222
Lead	ppm	Q 4	9	O 10	07
Tin	ppm	6	0 6	0 6	0 2
Aluminum	ppm	0<1	0 0	O <1	O <1
Chromium	ppm	<u> </u>	0.8	O 12	O 14
Molybdenum	ppm	0	0 <1	O <1	0 <1
Nickel	ppm	0 <1	O <1	0 2	02
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	4	5	8	1 0
Vanadium	ppm	0	0	0	0
Add	itives				
Calcium	ppm	6	O 6	8	O 11
Magnesium	ppm	O <1	0 1	0 2	3
Zinc	ppm	2 1	O 23	O 31	O 29
Phosphorus	ppm	533	O 554	O 603	O 697

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Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate concentration of water present in the oil. Excessive free water present. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot:DOMBURUnique No:5763842Signed:Kevin MarsonReport Date:22 Apr 2024

 \bigcirc 0

O 52

 \bigcirc 22

0

8

ppm

ppm

Barium

Boron

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Graphs

