LIEBHERR

CONSTRUCTION EQUIPMENT



[(348643)] LIEBHERR NO UNIT WC0904887 - Hydraulic Syste

Sample No: LH0199306

Oil Type: AW HYDRAULIC OIL ISO 32

	le Inform	ation			
Sample Number		LH0199306	LH0199298	LH0199290	
Sample Date		29 Apr 2024	06 Feb 2023	06 Dec 2021	
Machine Hours		3004	1978	1074	
Oil Hours		0	0	0	
Oil Changed		Not Changd	Changed	Not Changd	
Sample Status		ABNORMAL	ATTENTION	ATTENTION	
Acid Number (AN)	mg KOH/g	0.85	0 1.09	○ 1.49	
Visc @ 40°C Acid Number (AN)	cSt mg KOH/g	32.70.85	○ 44.2○ 1.09	↓ 45.7↓ 1.49	
Conta	mination	1			
	mination %	NEG	NEG	NEG	
Water			NEG ② 26374	NEG	
Water Particles >4μm		NEG			
Water Particles >4μm Particles >6μm		NEG ○ 53700	26374	35168	
Nater Particles >4μm Particles >6μm Particles >14μm		NEG	26374924	351682715	
Water Particles >4µm Particles >6µm Particles >14µm SO 4406:1999 (c)		NEG	2637492474	35168271560	
Water Particles >4µm Particles >6µm Particles >14µm ISO 4406:1999 (c) Silicon Sodium	%	NEG 53700 12985 899 23/21/17	26374 924 74 22/17/13	3516827156022/19/13	

Wear	Metals				
PQ			0 0		
Iron	ppm	14	O 22	14	
Copper	ppm	8	10	7	
Lead	ppm	0 <1	1	1	
Tin	ppm	0	O 0	O 0	
Aluminum	ppm	2	O 2	O <1	
Chromium	ppm	0	O <1	O <1	
Molybdenum	ppm	0 <1	3	3	
Nickel	ppm	0	O <1	<1	
Titanium	ppm	0	<1	0	
Silver	ppm	0	0	<1	
Manganese	ppm	O <1	<1	<1	
Vanadium	ppm	0	0	0	

Additives							
Calcium	ppm	748	1367	1379			
Magnesium	ppm	4	6	7			
Zinc	ppm	502	657	667			
Phosphorus	ppm	425	614	605			
Barium	ppm	0	0	0			
Boron	ppm	2	4	4			
DOIOII	ррпп	<u> </u>	7	4			



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Diagnosis

The filter 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 amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot:COU501STPUnique No:5776464Signed:Kevin MarsonReport Date:15 May 2024

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Graphs

