• **CONSTRUCTION EQUIPMENT**

LIEBHERR LH60M 1204-74217 - Hydraulic System

Sample No: LH0268891

Oil Type: LIEBHERR HYDRAULIC HVI

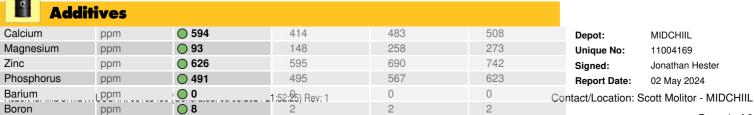
Sample Information

		-					
Sample Number		LH0268891	LH0235996	LHMC121039	LHMC80520		
Sample Date		09 Apr 2024	26 Aug 2022	10 Aug 2017	24 May 2016		
Machine Hours		14693	0	8752	4556		
Oil Hours		500	0	0	0		
Oil Changed		Not Changd	N/A	N/A	Not Changd		
Sample Status		NORMAL	ABNORMAL	SEVERE	ABNORMAL		
Oil Condition							
Visc @ 40°C	cSt	0 47.7	48.6	0 46.6	40.15		
Acid Number (AN)	mg KOH/g	0.61	0.58	0.768	0.992		

Conta	mination				
Water	%	NEG	NEG	NEG	NEG
Particles 5-15µm	count			224705	
Particles 15-25µm	count			16058	
Particles 25-50µm	count			5870	
Particles 50-100µm	count			520	
Particles >100µm	count			94	
NAS Code				10	
Particles >4µm		0 14299	○ 5585	9824	2101
Particles >6µm		0 744	885	2553	43
Particles >14µm		0 15	○ 74	233	04
ISO 4406:1999 (c)		21/17/11	20/17/13	20/19/15	18/13/9
Silicon	ppm	3	3	04	3
Sodium	ppm	5	8	04	3
Potassium	ppm	○ <1	0	○ <1	01



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Weal	Metals				
Iron	ppm	◯ 20	25	0 14	09
Copper	ppm	0 12	0 23	0 22	0 19
Lead	ppm	○ <1	○ <1	2	0 1
Tin	ppm	0 ()	0	0	○ <1
Aluminum	ppm	○ <1	01	○ <1	○ <1
Chromium	ppm	02	2	01	○ <1
Molybdenum	ppm	3	2	2	1
Nickel	ppm	0 ()	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	○ <1	<1	<1	<1
Vanadium	ppm	0	0	0	0







MIDDLE RIVER MARINE

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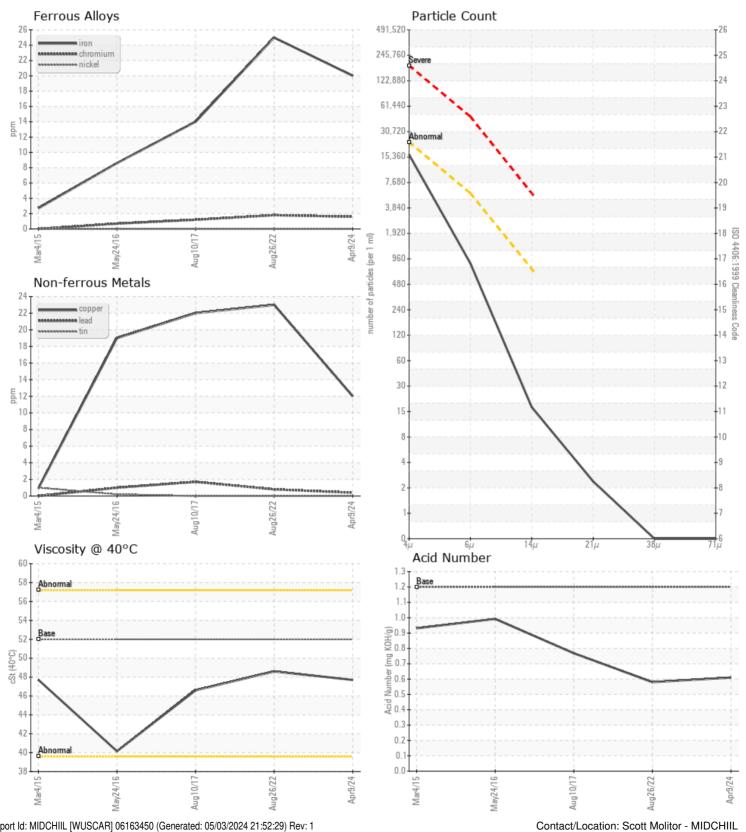
Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





Ö Graphs



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