LIEBHERR

CONSTRUCTION EQUIPMENT



[(364849) [02625321]] LIEBHERR R934 053396-1487 - Hydraulie

Sample No: LH0219938

Oil Type: LIEBHERR HYDRAULIC HVI

	le Inform				
Sample Number		LH0219938	LH0219931	LH	
Sample Date		01 Apr 2024	15 Mar 2024	09 Feb 2022	
Machine Hours		1995	1925	0	
Oil Hours		0	0	0	
Oil Changed		Not Changd	Changed	N/A	
Sample Status		SEVERE	SEVERE	ABNORMAL	
Oil Co	ndition				
/isc @ 40°C	cSt	41.1	O 40.9	O 44.3	
Acid Number (AN)	ma KOH/a	O 1.00	O 1.38		
	9 - 3	0 1100	0		
Conta	mination				
Water	%	NEG	NEG	NEG	
Particles >4μm		2561	O 113685	98617	
Particles >6µm		574	O 25575	O 14364	
Particles >14μm		60	O 220	O 42	
ISO 4406:1999 (c)		19/16/13	24/22/15	24/21/13	
Silicon	ppm	5	6	5	
Sodium	ppm	3	3	O 2	
Potassium	ppm	○ <1	O <1	1	
Wear	Metals				
ron	ppm	6	0 8	O 7	
Copper	ppm	40	4 5	9	
Lead	ppm	O 5	0 6	0 2	
Tin	ppm	2	0 4	O <1	
Aluminum	ppm	0 1	O 1	O <1	
Chromium	ppm	O <1	O <1	O <1	
Molybdenum	ppm	0	0 0	0	
Vickel	ppm	0	0 0	O 0	
Titanium	ppm	0	0	0	
Silver	ppm	0	0	0	
Manganese	ppm	0	0 0	<1	
Vanadium	ppm	0	0	0	
	1-1-				
Addit	ivos				
Addit	ives				
Calcium	ppm	1185	O 1296	1466	

702

595



HUBERT & FILS
474 ROUTE 105
BOIS-FRANC, QC
CA J9E 3A9
Contact: Eric Brisebois
ericbrisebois99@gmail.com

T: F:

Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Copper ppm levels are severe. Bearing and/or bushing wear is indicated. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: HUBBOI
Unique No: 5761025
Signed: Kevin Marson
Report Date: 11 Apr 2024

679

569

0<1

2

Magnesium

Phosphorus

Zinc

Barium

Boron

ppm

ppm

ppm

ppm

ppm

LIEBHERR

CONSTRUCTION EQUIPMENT





Graphs

