LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR R924 054969-1487 - Hydraulic System

Sample No: LH0286669

Oil Type: LIEBHERR HYDRAULIC HVI

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U Sam	ple Info	rmation			
Sample Number		LH0286669	LH0291267	LH0278948	
Sample Date		26 Jun 2024	27 May 2024	26 Jan 2024	
Machine Hours		3176	2977	2495	
Oil Hours		0	0	0	
Oil Changed		Not Changd	Not Changd	Not Changd	
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL	
Oil C	ondition	1			
Visc @ 40°C	cSt	42.5	O 42.2	42.9	

Contamination					
Water	%	NEG	NEG	NEG	
Particles >4µm		2623	32053	4256	
Particles >6µm		685	O 8253	O 751	
Particles >14µm		32	O 274	3 1	
ISO 4406:1999 (c))	19/17/12	22/20/15	19/17/12	
Silicon	ppm	5	O 5	5	
Sodium	ppm	4	4	4	
Potassium	ppm	○ <1	O <1	1	

Wed	ır Metal:	S			
Iron	ppm	7	7	6	
Copper	ppm	73	O 80	6 3	
Lead	ppm	<u> </u>	<u> </u>	9	
Tin	ppm	2	3	02	
Aluminum	ppm	1	<1	O 1	
Chromium	ppm	○ <1	O <1	O <1	
Molybdenum	ppm	0	0	O 0	
Nickel	ppm	○ <1	O 0	O 0	
Titanium	ppm	<1	0	0	
Silver	ppm	0	0	0	
Manganese	ppm	○ <1	<1 <1	O 0	
Vanadium	ppm	0	0	0	

Additives						
Calcium	ppm	1063	1141	O 1077		
Magnesium	ppm	8	4	4		
Zinc	ppm	691	O 686	○ 682		
Phosphorus	ppm	573	O 578	579		
Barium	ppm	() <1	O <1	O 0		
Boron	ppm	○ <1	O <1	<1		



CLOUTHIER VENTURES LTD.

59 MATTHEWS STREET, R.R. # 5 PEMBROKE, ON

CA K8A 0A6

Contact: Travis Bennett tbennett@clouthierconst.com

T: (613)735-6531 F: (613)735-2769

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 and lead ppm levels are abnormal. 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 oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: CLOPEM
Unique No: 5811469
Signed: Kevin Marson
Report Date: 08 Jul 2024

CONSTRUCTION EQUIPMENT





Graphs

