

116431-1217 - Hydraulic System

Sample No: LH0215732

Oil Type: LIEBHERR HYDRAULIC HVI

SAMPLE INFORMATION

Sample Number	LH0215732	LH0202951	LH0173444	LH0195493			
Sample Date	12 Dec 2021	20 Sep 2021	22 Apr 2021	08 Apr 2021			
Machine Hours	4729	4187	3269	3172			
Oil Hours	0	0	0	0			
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd			
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL			
Visc @ 40°C cSt	0 41.4	● 41.5	42.0	0 41.7			

Particles >4µm	0 4308	2601	359	0 41483				
Particles >6µm	0 382	521	0 108	0 8265				
Particles >14µm	0 14	20	0 12	97				
ISO 4406:1999 (c)	19/16/11	19/16/11	16/14/11	23/20/14				
Silicon ppm	0 2	2	2	2				
Sodium ppm	03	02	2	2				
Potassium ppm	○ 1	01	○ <1	0 1				

\mathbf{O} **WEAR METALS** PQ 8 🔘 0 0 3 Iron ppm 0 103 076 0 65 0 68 04 Copper 06 04 04 ppm Lead 01 $\bigcirc <$ $\bigcirc <$ ppm \bigcirc <1 Tin ppm ○ <1 0 <'</p> \bigcirc <¹ Aluminum ○ <1 ppm \bigcirc < Chromium 01 ppm <1 \bigcirc <¹ < Molybdenum 0 🔘 ppm <1 < Nickel ppm <1 <1 <1 Titanium n 0 0 ppm Silver \cap ppm 0 Manganese 02 ppm Vanadium ppm <1

	ITIVES					
Calcium	ppm	1185	0 1038	0 1141	0 1166	
Magnesium	ppm	07	○ 5	07	07	
Zinc	ppm	0 781	694	0715	0 705	
Phosphorus	ppm	682	624	591	577	
Barium	ppm	0	0	◯ <1	○ <1	
Boron	ppm	01	01	◯ <1	◯ <1	



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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. Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. NOTE: An increase in the particle count is noted. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

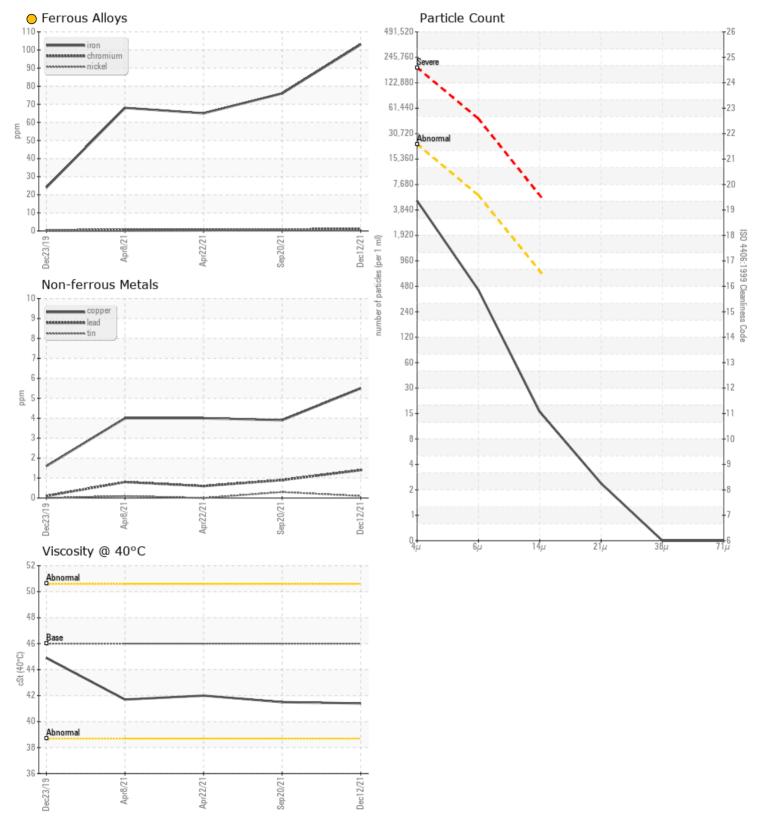
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