

LIEBHERR LH50M 113527-1216 - Hydraulic System

Sample No: LH0290625

Oil Type: AW HYDRAULIC OIL ISO 46

Sample Information

Sample Number	LH0290625	LH0284315	LH	
Sample Date	13 Jun 2024	13 Mar 2024	13 Mar 2023	
Machine Hours	6512	6512	0	
Oil Hours	0	0	0	
Oil Changed	Not Changd	Not Changd	N/A	
Sample Status	ABNORMAL	NORMAL	ABNORMAL	

Oil Co	ndition				
Visc @ 40°C	cSt	39.6	39.9	◯ 43.0	
Visc @ 100°C	cSt			7.4	
Viscosity Index (VI)	Scale			137	
21 C					

Contamination					
Water	%	NEG	NEG	NEG	
Particles >4µm		9002	6456	96755	
Particles >6µm		2634	1398	0 12267	
Particles >14µm		0 159	0 46	0 40	
ISO 4406:1999 (c)		20/19/14	20/18/13	24/21/12	
Silicon	ppm	0 ()	○ <1	02	
Sodium	ppm	○ <1	○ <1	02	
Potassium	ppm	<mark>()</mark> <1	○ <1	○ <1	

Wear Metals

		•			
PQ		01		12	
Iron	ppm	<u> </u>	0 44	0 82	
Copper	ppm	03	2	0 4	
Lead	ppm	0 🔘	0	◯ <1	
Tin	ppm	0	0	◯ <1	
Aluminum	ppm	0 🔘	○ <1	◯ <1	
Chromium	ppm	○ <1	◯ <1	2	
Molybdenum	ppm	0 🔘	0	0	
Nickel	ppm	0	0	0	
Titanium	ppm	0	0	0	
Silver	ppm	0	0	0	
Manganese	ppm	○ <1	○ <1	1	
Vanadium	ppm	0	0	<1	

Additives						
Calcium	ppm	0 271	276	743		
Magnesium	ppm	02	0 2	4		
Zinc	ppm	614	625	407		
Phosphorus	ppm	0 504	522	445		
Barium	ppm	0 (0	0		
Boron	ppm	○ <1	○ <1	<1		







LIEBHERR CANADA LTEE

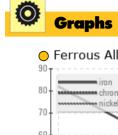
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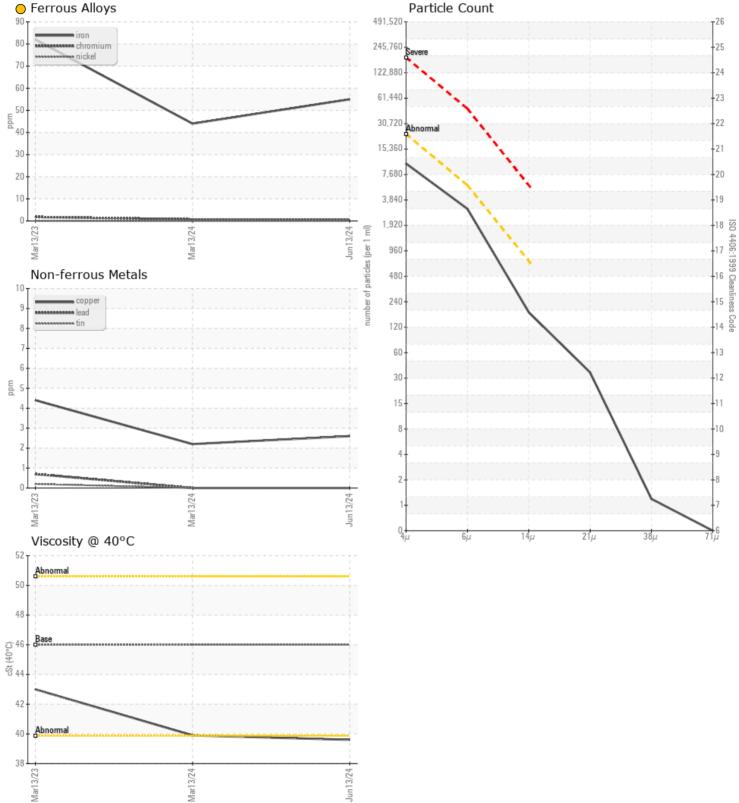
Diagnosis

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. The oil is no longer serviceable as a result of the abnormal and/or severe wear.









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