CONSTRUCTION EQUIPMENT

[fondation beliveau] LIEBHERR LH40M 098208 - Energy Recovery

Sample No: LH0269934

Oil Type:

SAMPLE INFORMATION

{unknown}

Sample Number	LH0269934	 	
Sample Date	01 Mar 2024	 	
Machine Hours	6970	 	
Oil Hours	0	 	
Oil Changed	Changed	 	
Sample Status	SEVERE	 	

OIL CONDITION

Visc @ 40°C

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cSt

239

Water	%	NEG		
Particles >4µm		367104		
Particles >6µm		60205		
Particles >14µm		<u> </u>		
ISO 4406:1999 (c)		26/23/17		
Silicon	ppm) 93		
Sodium	ppm	0 16		
Potassium	ppm	0 22		

WEAR METALS

	33			
ppm	<u> </u>			
ppm	02			
ppm	3			
ppm	0			
ppm	O 39			
ppm	429			
ppm	2			
ppm	○ <1			
ppm	3			
ppm	0			
ppm	6			
ppm	0			
	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ppm 415 ppm 2 ppm 3 ppm 0 ppm 39 ppm 429 ppm <1	ppm 415 ppm 2 ppm 3 ppm 0 ppm 39 ppm 429 ppm 2 ppm 2 ppm 2 ppm 2 ppm 0 ppm 6	ppm 415 ppm 2 ppm 3 ppm 0 ppm 39 ppm 429 ppm 2 ppm 2 ppm 2 ppm 0 ppm 0 ppm 0 ppm

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ADDITIVES

Calcium	ppm	144			
Magnesium	ppm	21			
Zinc	ppm	33			
Phosphorus	ppm	221			
Barium	ppm	2			
Boron	ppm	2			



LIEBHERR CANADA LTEE

444 AVENUE DE LA FRICHE DOLBEAU-MISTASSINI, QC CA G8L 3M7 Contact: Martin Gagnon martin.gagnon@liebherr.com T: F: (418)276-9844

Diagnosis

We advise that you check all areas where contaminants can enter the system. The fluid change at the time of sampling has been noted. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample.Chromium ppm levels are severe. Iron ppm levels are abnormal. Aluminum ppm levels are noted. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is a high amount of particulates (2 to 100 microns in size) present in the fluid. Elemental levels of silicon (Si) and aluminum (AI) indicate aluminasilicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component. Viscosity of sample indicates oil is within SAE 80W140 range, advise investigate. The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

Depot:	LBADOL
Unique No:	5737112
Signed:	Kevin Marson
Report Date:	06 Mar 2024

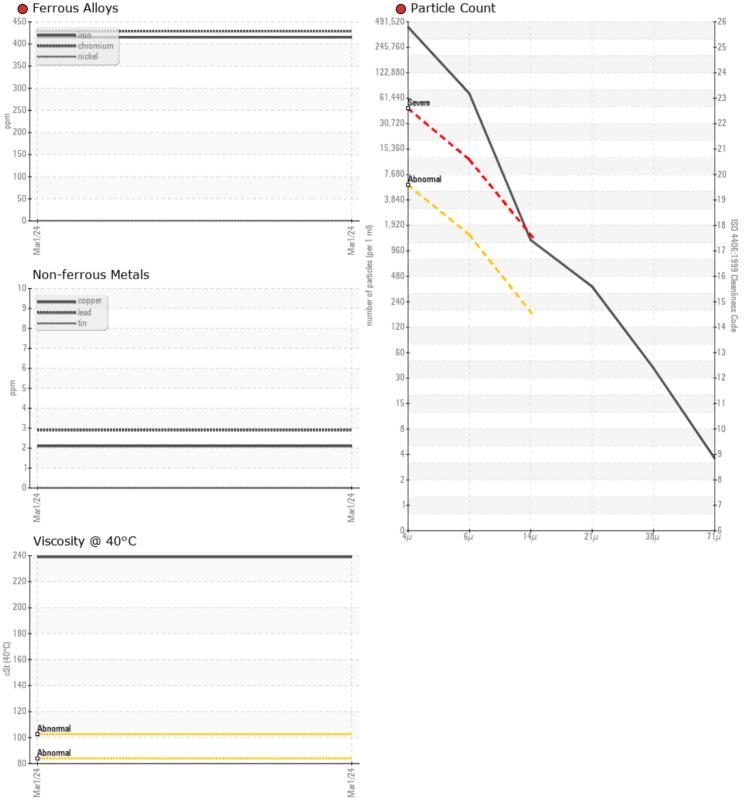
Contact/Location: Martin Gagnon - LBADOL





GRAPHS

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Report Id: LBADOL [WCAMIS] 02620002 (Generated: 03/06/2024 06:49:33) Rev: 1