

LIEBHERR LH50 109502-1216 - Hydraulic System

Sample No: LH0258809

Oil Type: LIEBHERR HYDRAULIC HVI

SAMPLE INFORMATION

Sample Number		LH0258809	LHMC149791	LHMC142208			
Sample Date		04 Mar 2024	26 Feb 2019	07 Jan 2019			
Machine Hours		22219	800	15			
Oil Hours		0	800	15			
Oil Changed		Not Changd	Changed	Changed			
Sample Status		NORMAL	NORMAL	ABNORMAL			
OIL CONDITION							
Visc @ 40°C c	:St	● 49.0	0 48.84	0 48.83			

Acid Number (AN) mg KOH/g 0.82

	CONT
Vater	

Water	%	NEG	NEG	NEG	
Particles >4µm		0 13826	0 12102	0 49286	
Particles >6µm		0 1336	203	3316	
Particles >14µm		93	0 12	O 60	
ISO 4406:1999 (c)		21/18/14	21/15/11	23/19/13	
Silicon	ppm	0 12	01	01	
Sodium	ppm	3	◯ <1	01	
Potassium	ppm	<mark>()</mark> <1	01	01	

0.997

0 1.114

WEAR METALS

Iron	ppm	07	0 11	3	
Copper	ppm	01	○ <1	◯ <1	
Lead	ppm	○ <1	○ <1	◯ <1	
Tin	ppm	<mark></mark> <1	0	◯ <1	
Aluminum	ppm	01	○ <1	◯ <1	
Chromium	ppm	0 🔘	○ <1	0	
Molybdenum	ppm	0 2	○ <1	<1	
Nickel	ppm	0 🔘	0	0	
Titanium	ppm	0	<1	0	
Silver	ppm	0	<1	0	
Manganese	ppm	○ <1	○ <1	<1	
Vanadium	ppm	0	0	0	

Calcium	ppm	3230	0 1456	1427	
Magnesium	ppm	31	0 9	9	
Zinc	ppm	1439	857	702	
Phosphorus	ppm	O 1133	0 703	614	
Barium	ppm	0	○ <1	0	
Boron	ppm	0 103	○ 5	6	





AMERICAN STATE EQUIPMENT CO. 2400 NORTH 14TH AVENUE WAUSAU, WI US 54401 Contact: CHRIS BARTNIK

cbartnik@amstate.com T: (715)675-6900 F: (715)675-9748

Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. Confirm oil type. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

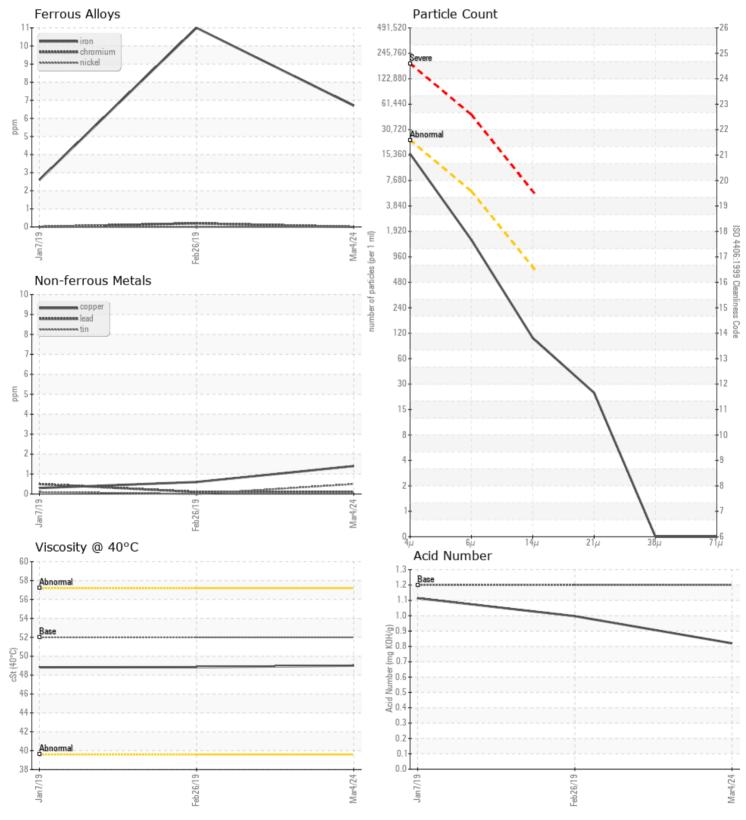
Depot: LEC0008 Unique No: 10949401 Signed: Don Baldridge Report Date: 29 Mar 2024





GRAPHS

 \odot



Report Id: LEC0008 [WUSCAR] 06129936 (Generated: 03/29/2024 14:35:36) Rev: 1

Contact/Location: CHRIS BARTNIK - LEC0008