LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR R936 045079-1490 - Hydraulic System

Sample No: LH0254090

Oil Type: LIEBHERR HYDRAULIC HVI

SAMPLE INFORMATION					
Sample Number	LH0254090	LH0229861			
Sample Date	20 Jul 2023	27 Oct 2022			
Machine Hours	1185	623			
Oil Hours	0	0			
Oil Changed	Not Changd	Not Changd			
Sample Status	ABNORMAL	ABNORMAL			
A					

OIL CONDITION						
Visc @ 40°C	cSt	46.4	46.6			
Acid Number (AN)	mg KOH/g	1.23	O 1.31			
CONTAMINATION						
Particles >4µm		47911	40513			
Particles >6µm		8388	8377	***		
Particles >14µm		153	○ 303			
ISO 4406:1999 (c)		23/20/14	23/20/15			
Silicon	ppm	5	O 5			
Sodium	ppm	0	O <1			
Potassium	ppm	2	 <1			

WEA	R METAI	LS		
Iron	ppm	12	9	
Copper	ppm	5	3	
Lead	ppm	1	O <1	
Tin	ppm	0	0	
Aluminum	ppm	1	O <1	
Chromium	ppm	○ <1	O <1	
Molybdenum	ppm	0	O 0	
Nickel	ppm	0	O 0	
Titanium	ppm	0	0	
Silver	ppm	0	<1	
Manganese	ppm	() <1	O <1	
Vanadium	ppm	0	0	

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ADDITIVES						
Calcium	ppm	1328	O 1358			
Magnesium	ppm	18	O 7			
Zinc	ppm	732	O 716			
Phosphorus	ppm	604	608			
Barium	ppm	0	O 0			
Boron	ppm	0	O <1			



ACECO 10119 RESIDENCY ROAD MANASSAS, VA US 20110 Contact: RON BROCK

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Diagnosis

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot: ACEMAN
Unique No: 10608701
Signed: Wes Davis
Report Date: 21 Aug 2023

CONSTRUCTION EQUIPMENT





GRAPHS

