LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR LH30 105464-1253 - Hydraulic System

Sample No: LH0258320

Oil Type: LIEBHERR HYDRAULIC HVI

SAMPLEINFORMATION						
Sample Number	LH0258320	LHMC164162	LHMC117740			
Sample Date	11 Aug 2023	24 Jul 2019	19 Feb 2019			
Machine Hours	6183	883	448			
Oil Hours	0	0	448			
Oil Changed	Not Changd	N/A	N/A			
Sample Status	NORMAL	ABNORMAL	ABNORMAL			
A						

OIL CO	NDITION				
Visc @ 40°C	cSt	42.9	O 45.1	○ 46.6	
Acid Number (AN)	mg KOH/g	1.00	1.081	1.324	

CONTAMINATION						
Water	%			0.049		
Particles >4µm		2469	38260	O 15425		
Particles >6µm		796	O 11026	8402		
Particles >14µm		82	○ 375	O 1431		
ISO 4406:1999 (c)		18/17/14	22/21/16	21/20/18		
Silicon	ppm	2	3	O 2		
Sodium	ppm	4	O 2	O 1		
Potassium	mag	2	O 11	0 2		

()					
WEA	AR METAL	S			
Iron	ppm	23	O 12	9	
Copper	ppm	9	3	3	
Lead	ppm	2	O <1	<1	
Tin	ppm	0	O 0	O <1	
Aluminum	ppm	() <1	O <1	<1	
Chromium	ppm	1	O <1	<1	
Molybdenum	ppm	 <1	O <1	0	
Nickel	ppm	0	O <1	0	
Titanium	ppm	0	<1	0	
Silver	ppm	0	0	<1	
Manganese	ppm	 <1	O <1	<1	
Vanadium	ppm	0	0	0	

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ADD	DITIVES				
Calcium	ppm	1374	O 1335	1368	
Magnesium	ppm	7	O 6	6	
Zinc	ppm	700	O 654	665	
Phosphorus	ppm	545	O 492	575	
Barium	ppm	0	0	0	
Boron	ppm	0	O <1	2	



TRAM CONSTRUCTION 9279 E KY 8 GARRISON, KY US 41141

Contact: Service Manager

T: F:

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. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: TRAGARLH
Unique No: 10615565
Signed: Jonathan Hester
Report Date: 23 Aug 2023

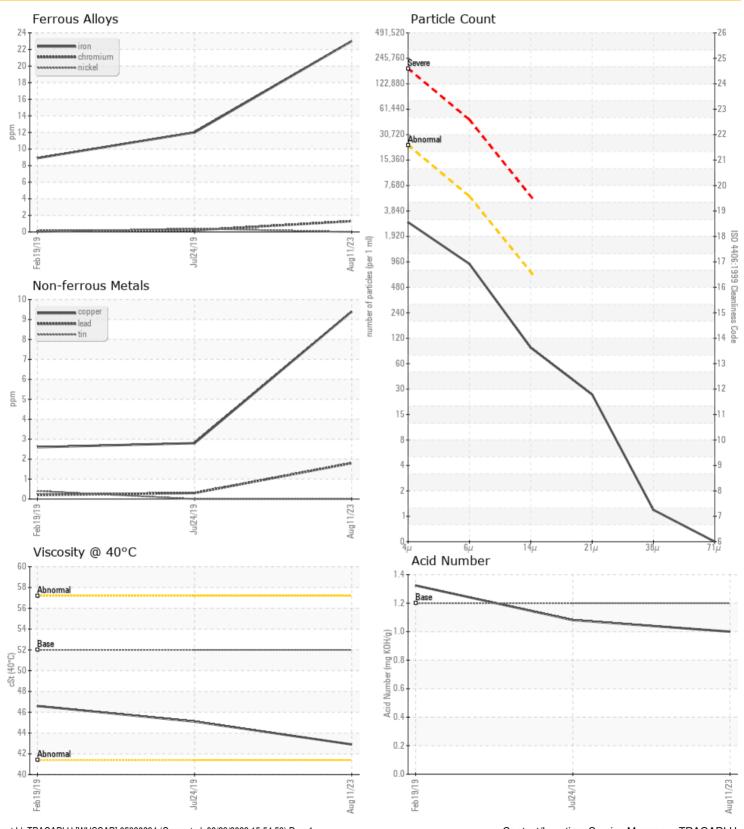
LIEBHERR

CONSTRUCTION EQUIPMENT





GRAPHS



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Contact/Location: Service Manager - TRAGARLH