LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR HS 8100 HD 184977 - Hydraulic System

Sample No: LHMC144464

Oil Type: LIEBHERR HYDRAULIC 37

A					
U SAMP	PLE INFOR	MATION			
Sample Number		LHMC144464	LH0204266	LHMC143566	LHMC144715
Sample Date		27 Mar 2023	01 Aug 2022	26 May 2021	27 Apr 2019
Machine Hours		4281	4000	3134	1079
Oil Hours		4281	4000	3134	0
Oil Changed		Changed	Not Changd	Not Changd	Not Changd
Sample Status		NORMAL	NORMAL	NORMAL	NORMAL
A					
OIL CO	ONDITION				
Visc @ 40°C	cSt	○ 34.4	34.4	○ 34.6	35.8
Acid Number (AN)	mg KOH/g	0.42	0.46	0.467	0.459
CONT	AMINATI	ON			
Water		NEC	NEC	NEC	NEC

Water % NEG NEG NEG Particles >4μm ② 214 ③ 994 ③ 3323 ④ 4788 Particles >6μm ⑥ 61 ① 159 ⑥ 847 ① 1054 Particles >14μm ② 7 ⑨ 9 ⑦ 70 ⑦ 78 ISO 4406:1999 (c) 15/13/10 17/14/10 19/17/13 19/17/13 Silicon ppm ⑥ 6 ⑥ 6 ② 7	CONTAMINATION						
Particles >6μm 61 159 847 1054 Particles >14μm 7 9 70 78 ISO 4406:1999 (c) 15/13/10 17/14/10 19/17/13 19/17/13 Silicon ppm 6 6 6 7	Water	%	NEG	NEG	NEG	NEG	
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ISO 4406:1999 (c) 15/13/10 17/14/10 19/17/13 19/17/13 Silicon ppm 6 6 6 6	Particles >6µm		61	159	847	O 1054	
Silicon	Particles >14μm		7	9	O 70	78	
	ISO 4406:1999 (c))	15/13/10	17/14/10	19/17/13	19/17/13	
Codium 00	Silicon	ppm	6	6	6	O 7	
Socium ppm 0	Sodium	ppm	0	0	O 1	O <1	
Potassium ppm ○ 0 0 0	Potassium	ppm	0	0	0	0	

WEAL	R METALS				
Iron	ppm	7	6	7	3
Copper	ppm	9	10	10	6
Lead	ppm	0	O <1	O <1	O <1
Tin	ppm	0	O 0	O <1	O 0
Aluminum	ppm	0 <1	O 0	0	0
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	0	O 0	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	1	0
Manganese	ppm	() <1	O <1	O <1	<1
Vanadium	ppm	0	0	0	0

ADD	DITIVES				
Calcium	ppm	○ 309	○ 314	○ 323	325
Magnesium	ppm	14	O 9	9	10
Zinc	ppm	385	○ 368	○ 367	369
Phosphorus	ppm	328	○ 313	○ 328	324
Barium	ppm	0	O 0	O	0
Boron	ppm	5	0	12	8



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Diagnosis

F: (540)882-4190

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

Depot:DENPAEUnique No:10430219Signed:Don BaldridgeReport Date:19 Apr 2023

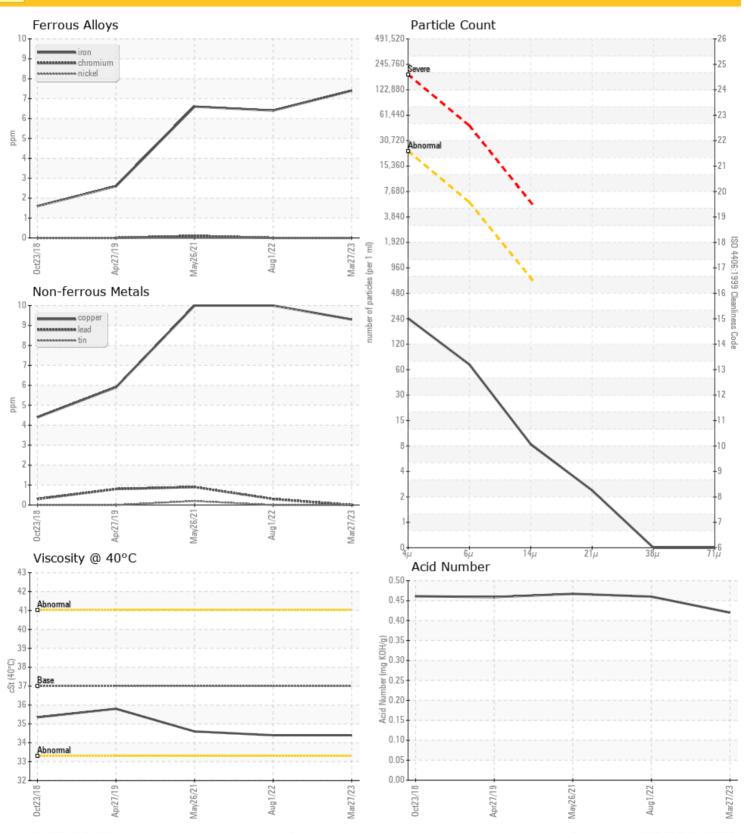
Submitted By: ROBERT SHAFFER

CONSTRUCTION EQUIPMENT





GRAPHS



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