LIEBHERR

CONSTRUCTION EQUIPMENT



[[SCP DRILLING]] LIEBHERR LR622 008331-392 - Hydraulic Sy

Sample No: LH0272932

Oil Type: AW HYDRAULIC OIL ISO 68

SAMP	LE INFOR	MATION			
Sample Number		LH0272932	LHMC023337	LHMC023945	LHMC016580
Sample Date		31 Jan 2024	07 Aug 2008	26 Apr 2008	16 Nov 2007
Machine Hours		0	1448	917	131
Oil Hours		0	0	917	0
Oil Changed		Not Changd	Not Changd	Not Changd	Not Changd
Sample Status		ATTENTION	ABNORMAL	NORMAL	ABNORMAL
OIL CO	NDITION	•			
/isc @ 40°C	cSt	53.03	○ 63.6	○ 64.99	67.19
Acid Number (AN)	mg KOH/g	0.45	0 1.08	O 1.21	1.10
CONT	AMINATI	ON			

CONTAMINATION						
Water	%	NEG	NEG	NEG	NEG	
Particles >4µm		24555		275	15782	
Particles >6µm		5327		150	8597	
Particles >14µm		50		25	<u>1464</u>	
ISO 4406:1999 (c)		22/20/13		15/14/12	21/20/18	
Silicon	ppm	2	O 2	O <1	4	
Sodium	ppm	4	○ 3	5	6	
Potassium	ppm	4	O 0	1	O 0	

WEAI	R METALS				
Iron	ppm	4	0 4	O 4	O 2
Copper	ppm	6	8	8	3
Lead	ppm	2	O 2	<1	O 0
Tin	ppm	0 <1	0	0	O 0
Aluminum	ppm	1	 <1	<1	 <1
Chromium	ppm	0 <1	O <1	 <1	 <1
Molybdenum	ppm	3	0	<1	<1
Nickel	ppm	O <1	O <1	<1	 <1
Titanium	ppm	0	O <1	0	O <1
Silver	ppm	<1	0	0	0
Manganese	ppm	2	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES					
Calcium	ppm	134	2028	1740	1796
Magnesium	ppm	80	18	16	16
Zinc	ppm	400	502	522	551
Phosphorus	ppm	325	395	466	494
Barium	ppm	0	0	<1	0
Boron	ppm	5	50	47	50



LIEBHERR EQUIPMENT SOURCE

10119 RESIDENCY ROAD MANASSAS, VA US 20110

Contact: TOM HEINEY tom.heiney@liebherr.com

T: (703)392-0111 F: (703)331-5604

Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

Depot: LIEBHERRVA
Unique No: 10861146
Signed: Jonathan Hester
Report Date: 08 Feb 2024

Contact/Location: TOM HEINEY - LIEBHERRVA

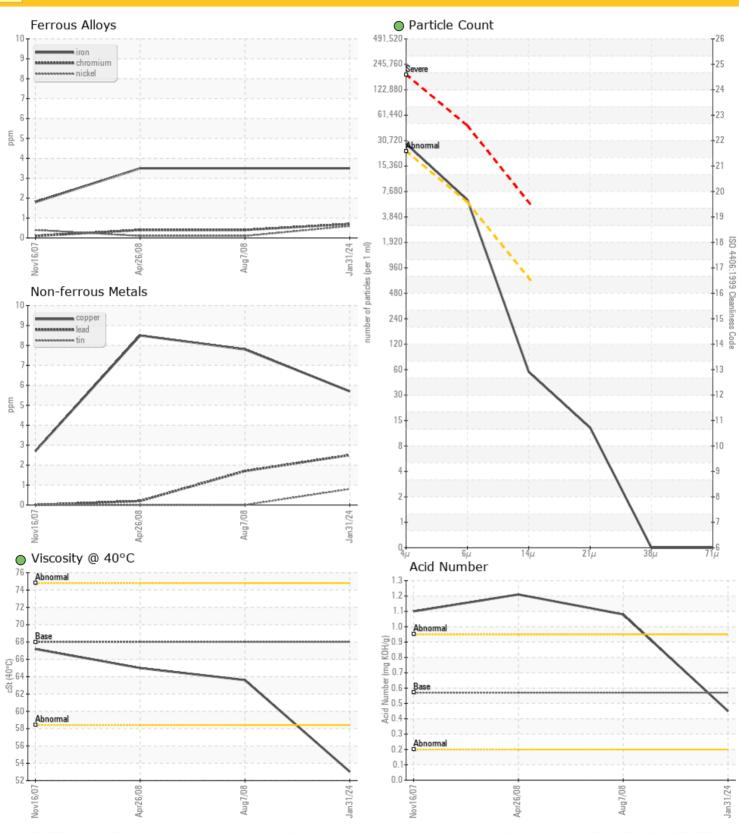
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GRAPHS



Report Id: LIEBHERRVA [WUSCAR] 06079055 (Generated: 02/08/2024 10:22:53) Rev: 1

Contact/Location: TOM HEINEY - LIEBHERRVA