LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR L538 1559-59801 - Hydraulic System

0.74

Sample No: LH0209845
Oil Type: {unknown}

Acid Number (AN) mg KOH/g

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SAME	PLE INFORI	MATION			
Sample Number		LH0209845	LH05774410	LH0204066	LH0209832
Sample Date		28 Feb 2024	21 Feb 2023	09 Mar 2022	01 Mar 2022
Machine Hours		3009	0	0	966
Oil Hours		0	2003	0	0
Oil Changed		Not Changd	Not Changd	N/A	Not Changd
Sample Status		ATTENTION	ATTENTION	ABNORMAL	ABNORMAL
OILCO	ONDITION				
Visc @ 40°C	cSt	44.0	O 44.2	O 44.1	44.4

CONTAMINATION						
Water	%	NEG	NEG	NEG	NEG	
Particles >4µm		29757	25406		O 123104	
Particles >6µm		5508	4100		O 12191	
Particles >14μm		212	164		○ 84	
ISO 4406:1999 (c)		22/20/15	22/19/15		24/21/14	
Silicon	ppm	2	O 2	O 2	3	
Sodium	ppm	6	O 5	1	0	
Potassium	ppm	2	3	0	O 2	

0.76

0 1.14

WEA	R METALS	3			
Iron	ppm	16	O 12	10	4
Copper	ppm	8	O 7	6	O 7
Lead	ppm	10	6	3	3
Tin	ppm	0	O 0	O <1	O 0
Aluminum	ppm	<1	O 0	<1	O <1
Chromium	ppm	3	O 2	O 1	O 1
Molybdenum	ppm	3	4	<1	0
Nickel	ppm	0	O 0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES						
Calcium	ppm	657	701	1525	1434	
Magnesium	ppm	30	37	7	7	
Zinc	ppm	524	564	729	754	
Phosphorus	ppm	434	449	611	614	
Barium	ppm	0	0	0	0	
Boron	ppm	5	6	0	2	



DIEHL AND NUEMAIER

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Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

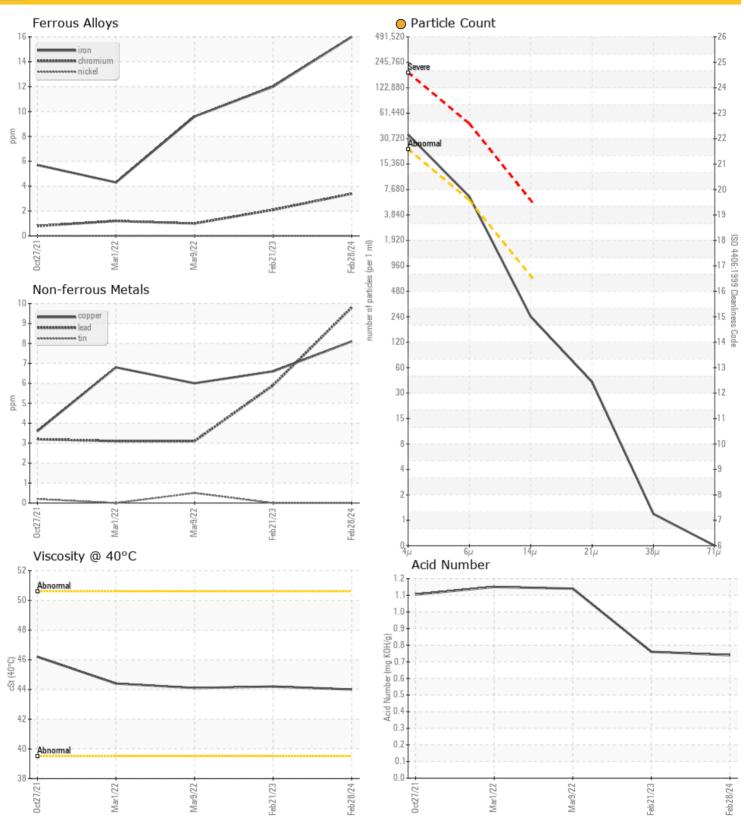
Depot: DIEDEF
Unique No: 10912828
Signed: Wes Davis
Report Date: 06 Mar 2024

CONSTRUCTION EQUIPMENT





GRAPHS



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Submitted By: ?