

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30 115841-1253 - Hydraulic System

Sample No: LH06062601

Oil Type: SHELL TELLUS S2 MX 68



SAMPLE INFORMATION

Sample Number	LH06062601	LH0235736	DJJ0011136	LH0207554
Sample Date	11 Jan 2024	28 Sep 2023	22 May 2023	22 Mar 2023
Machine Hours	11390	10707	2000	9140
Oil Hours	0	0	2000	2000
Oil Changed	Not Changd	N/A	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	ABNORMAL	ATTENTION

SPARTAN RECYCLING
 3071 HOWARD ST
 SPARTANBURG, SC
 US 29303
 Contact: SERVICE MANAGER



OIL CONDITION

Visc @ 40°C	cSt	62.9	59.6	57.8	57.3
Acid Number (AN)	mg KOH/g	0.49	0.43	0.48	0.49

T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		959	6879	8189	2344
Particles >6µm		150	3289	2467	610
Particles >14µm		12	564	226	38
ISO 4406:1999 (c)		17/14/11	20/19/16	20/18/15	18/16/12
Silicon	ppm	1	1	<1	0
Sodium	ppm	<1	1	3	2
Potassium	ppm	<1	1	0	<1

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	28	44	56	49
Copper	ppm	2	4	5	5
Lead	ppm	<1	<1	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	1	0	<1	<1
Chromium	ppm	2	2	2	2
Molybdenum	ppm	0	<1	0	<1
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	95	102	160	147
Magnesium	ppm	55	46	41	36
Zinc	ppm	344	359	385	370
Phosphorus	ppm	304	273	320	293
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: SPASPALH
 Unique No: 10833983
 Signed: Wes Davis
 Report Date: 18 Jan 2024

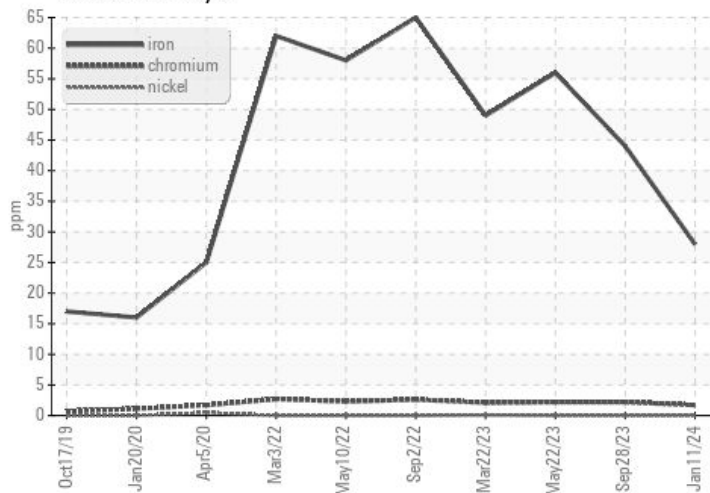
LIEBHERR

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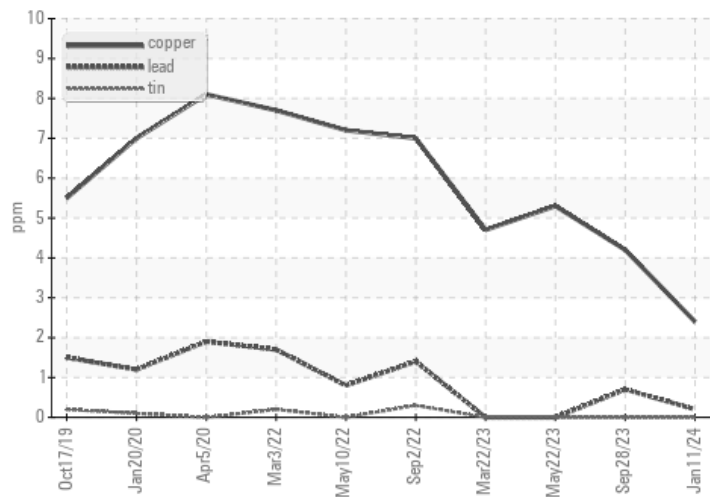


GRAPHS

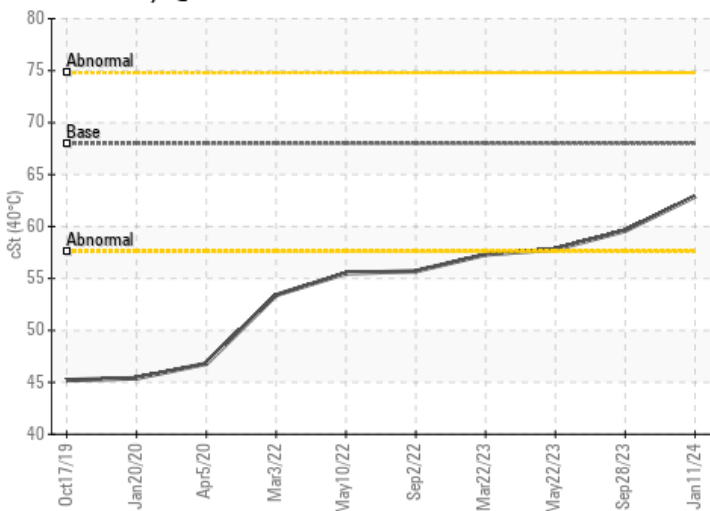
Ferrous Alloys



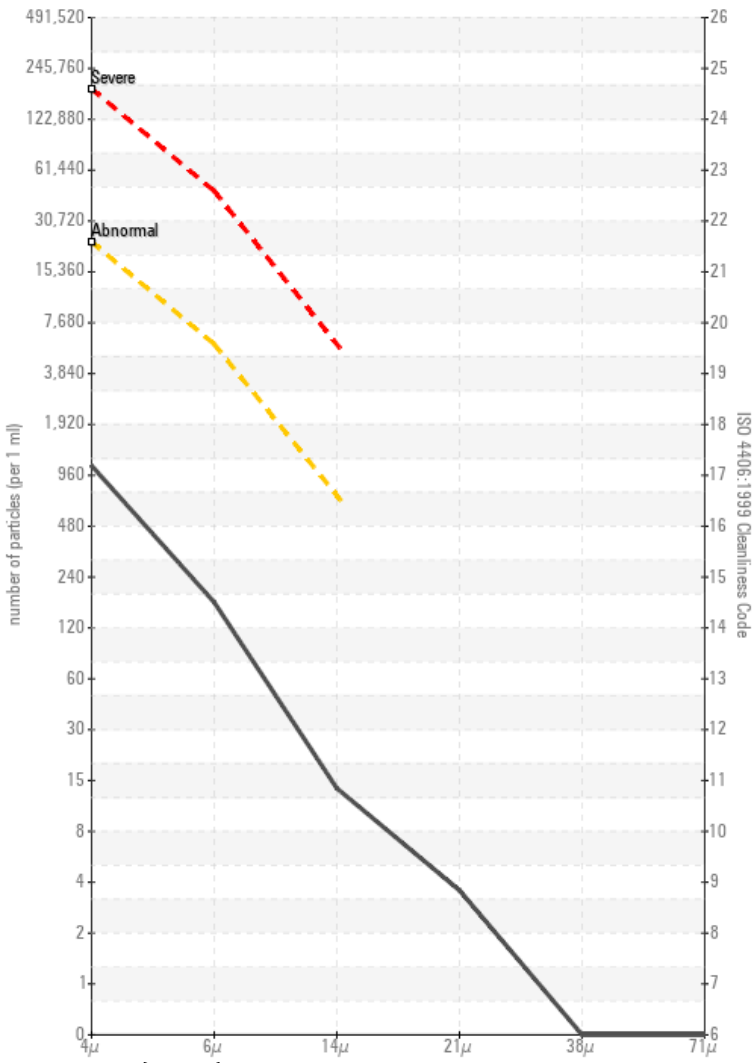
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

