

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30 115841-1253 - Hydraulic System

Sample No: LH0285573

Oil Type: {unknown}



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



Sample Information

Sample Number	LH0285573	LH06062601	LH0235736	DJJ0011136
Sample Date	20 Jun 2024	11 Jan 2024	28 Sep 2023	22 May 2023
Machine Hours	12685	11390	10707	2000
Oil Hours	500	0	0	2000
Oil Changed	Not Changd	Not Changd	N/A	Not Changd
Sample Status	ABNORMAL	NORMAL	NORMAL	ABNORMAL



Oil Condition

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

T:
F:



Contamination

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

Diagnosis

We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to metal particles present in this sample. The iron level is abnormal. Moderate concentration of visible metal present. 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.



Wear Metals

Iron	ppm	77	28	44	56
Copper	ppm	4	2	4	5
Lead	ppm	0	<1	<1	0
Tin	ppm	0	0	0	0
Aluminum	ppm	0	1	0	<1
Chromium	ppm	2	2	2	2
Molybdenum	ppm	0	0	<1	0
Nickel	ppm	0	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	<1



Additives

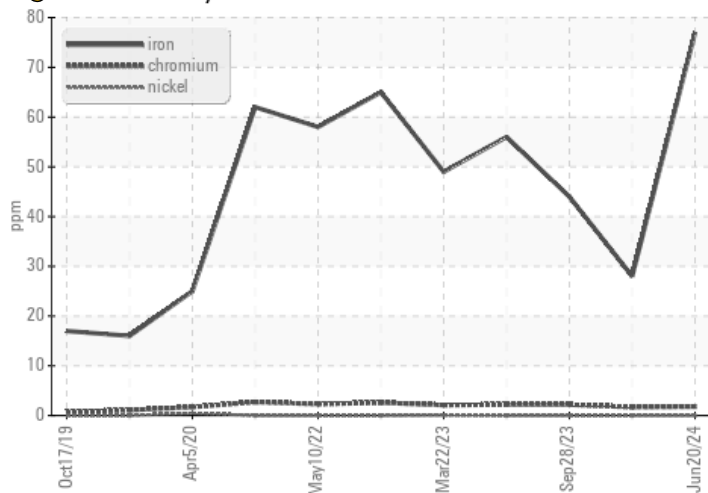
Calcium	ppm	58	95	102	160
Magnesium	ppm	53	55	46	41
Zinc	ppm	352	344	359	385
Phosphorus	ppm	290	304	273	320
Barium	ppm	<1	0	0	0
Boron	ppm	0	0	0	0

Depot: SPASPALH
 Unique No: 11100483
 Signed: Jonathan Hester
 Report Date: 02 Jul 2024

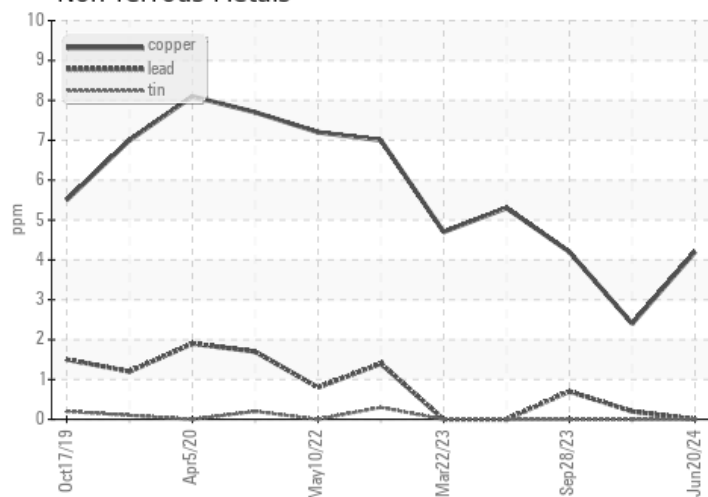


Graphs

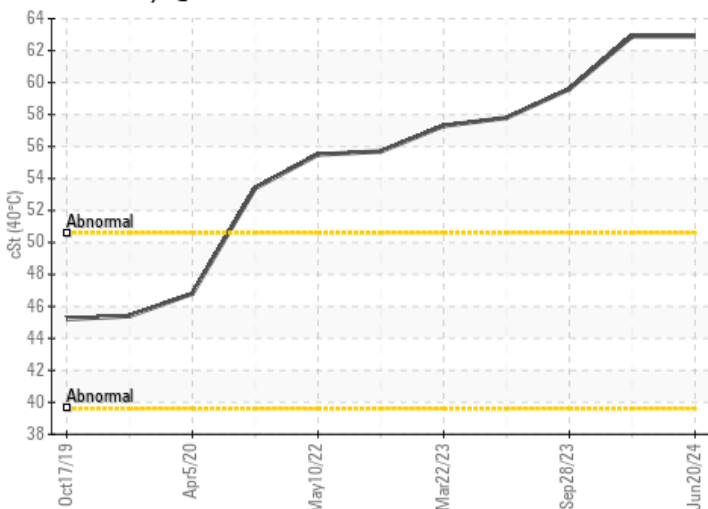
● Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

