

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH30 101514-1253 - Hydraulic System

Sample No: LH0272807

Oil Type: AW HYDRAULIC OIL ISO 46



#### SAMPLE INFORMATION

Sample Number	LH0272807	LH0235751	LH0217620	LH0166347
Sample Date	10 Jan 2024	25 Sep 2023	22 Mar 2023	14 Jul 2022
Machine Hours	12010	11543	10552	7420
Oil Hours	0	0	2000	0
Oil Changed	Not Changd	Changed	Not Changd	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SPARTAN RECYCLING

3071 HOWARD ST  
SPARTANBURG, SC  
US 29303

Contact: SERVICE MANAGER



#### OIL CONDITION

Visc @ 40°C	cSt	62.1	61.4	61.1	61.3
Acid Number (AN)	mg KOH/g	0.45	0.45	0.41	0.463

T:  
F:



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		5257	1344	1231	11096
Particles >6µm		1094	339	201	1897
Particles >14µm		57	18	15	74
ISO 4406:1999 (c)		20/17/13	18/16/11	17/15/11	21/18/13
Silicon	ppm	2	2	<1	3
Sodium	ppm	2	<1	2	2
Potassium	ppm	<1	1	0	0

#### Diagnosis

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



#### WEAR METALS

Iron	ppm	19	16	14	14
Copper	ppm	5	4	5	5
Lead	ppm	0	<1	0	<1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	1	0	<1	<1
Chromium	ppm	2	2	2	2
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	87	72	87	125
Magnesium	ppm	42	41	35	19
Zinc	ppm	341	346	336	348
Phosphorus	ppm	284	264	271	305
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	1

Depot: SPASPALH

Unique No: 10833950

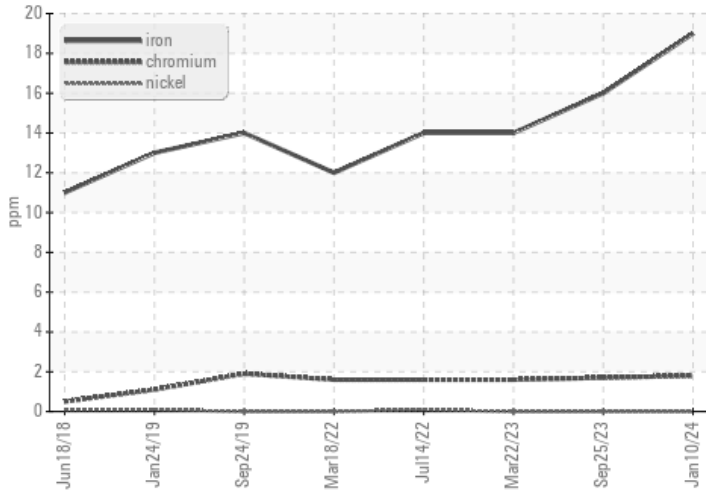
Signed: Jonathan Hester

Report Date: 19 Jan 2024

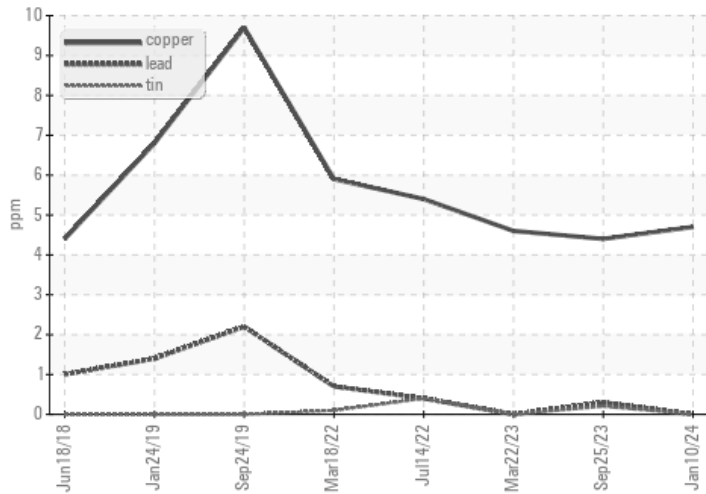


### GRAPHS

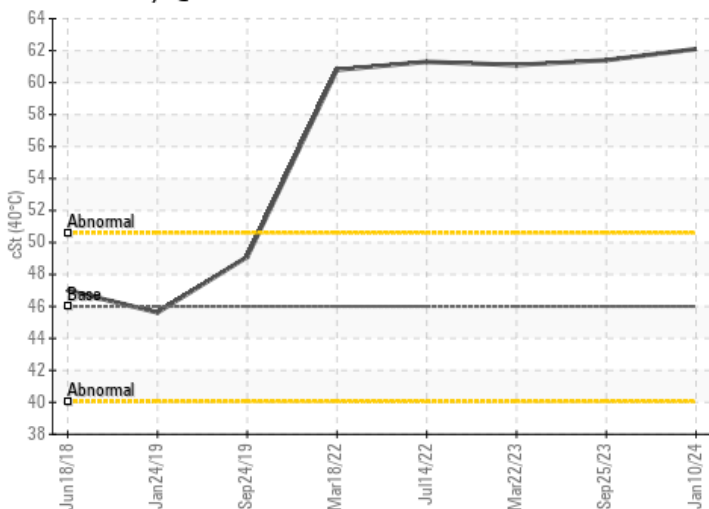
#### Ferrous Alloys



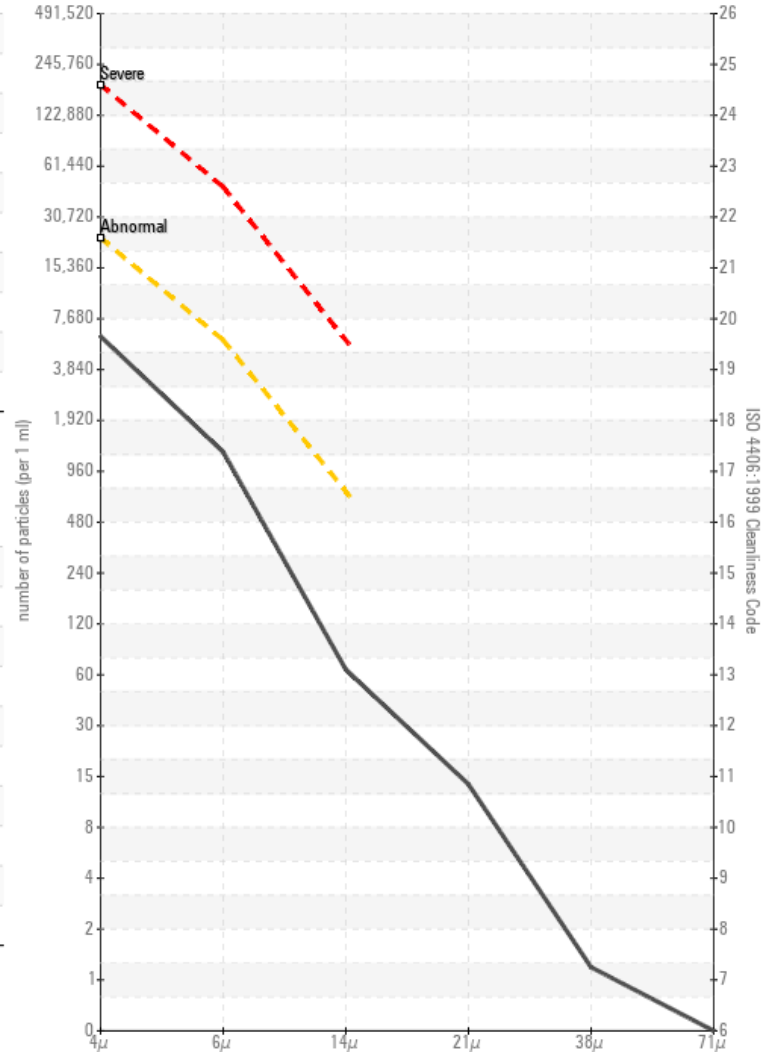
#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count



#### Acid Number

