

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30 101514-1253 - Hydraulic System

Sample No: LH0285569

Oil Type: AW HYDRAULIC OIL ISO 46



Sample Information

Sample Number	LH0285569	LH0272807	LH0235751	LH0217620
Sample Date	28 Jun 2024	10 Jan 2024	25 Sep 2023	22 Mar 2023
Machine Hours	12588	12010	11543	10552
Oil Hours	0	0	0	2000
Oil Changed	N/A	Not Changd	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SPARTAN RECYCLING

3071 HOWARD ST
SPARTANBURG, SC
US 29303

Contact: SERVICE MANAGER



Oil Condition

Visc @ 40°C	cSt	61.3	62.1	61.4	61.1
Acid Number (AN)	mg KOH/g	0.46	0.45	0.45	0.41

T:
F:



Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		2218	5257	1344	1231
Particles >6µm		585	1094	339	201
Particles >14µm		35	57	18	15
ISO 4406:1999 (c)		18/16/12	20/17/13	18/16/11	17/15/11
Silicon	ppm	1	2	2	<1
Sodium	ppm	2	2	<1	2
Potassium	ppm	<1	<1	1	0

Diagnosis

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



Additives

Calcium	ppm	105	87	72	87
Magnesium	ppm	50	42	41	35
Zinc	ppm	351	341	346	336
Phosphorus	ppm	294	284	264	271
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: SPASPALH

Unique No: 11110835

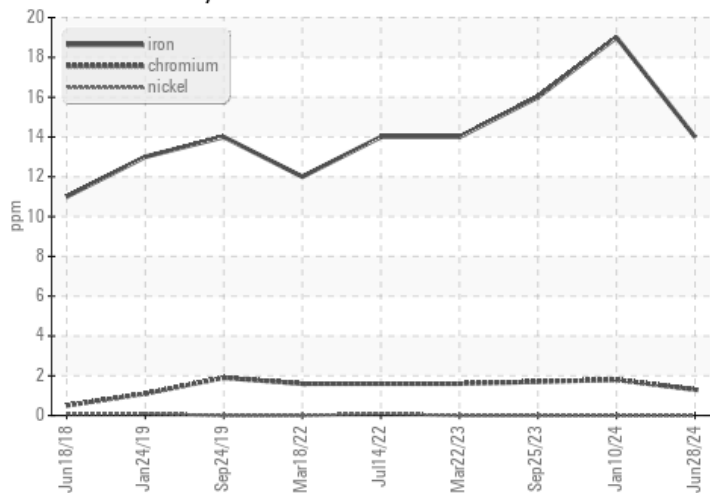
Signed: Wes Davis

Report Date: 05 Jul 2024

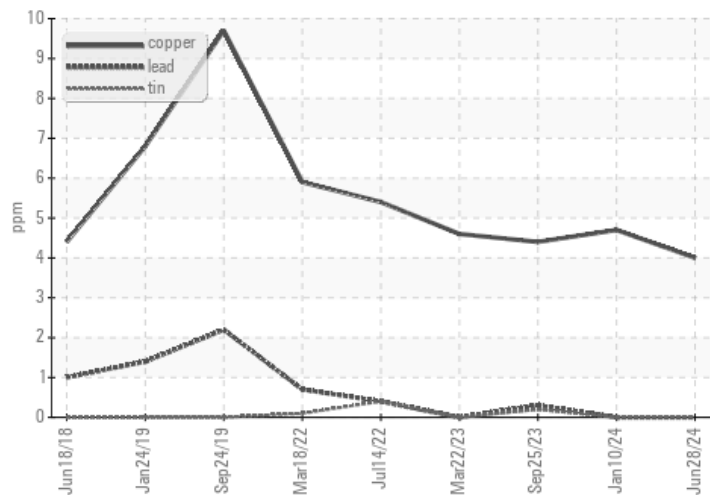


Graphs

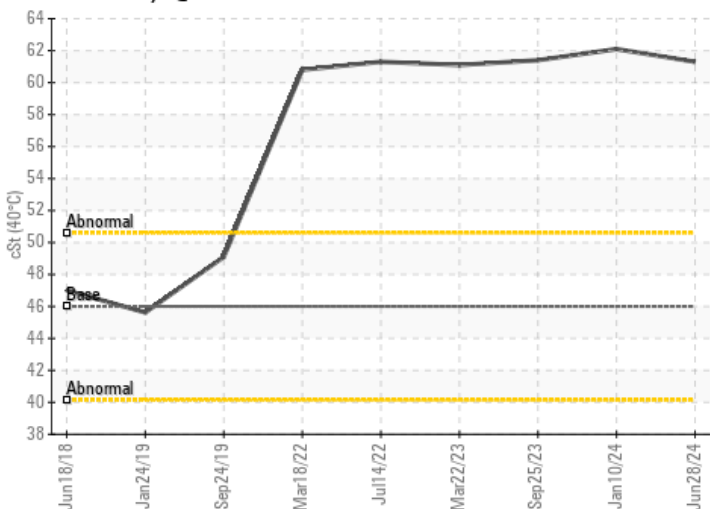
Ferrous Alloys



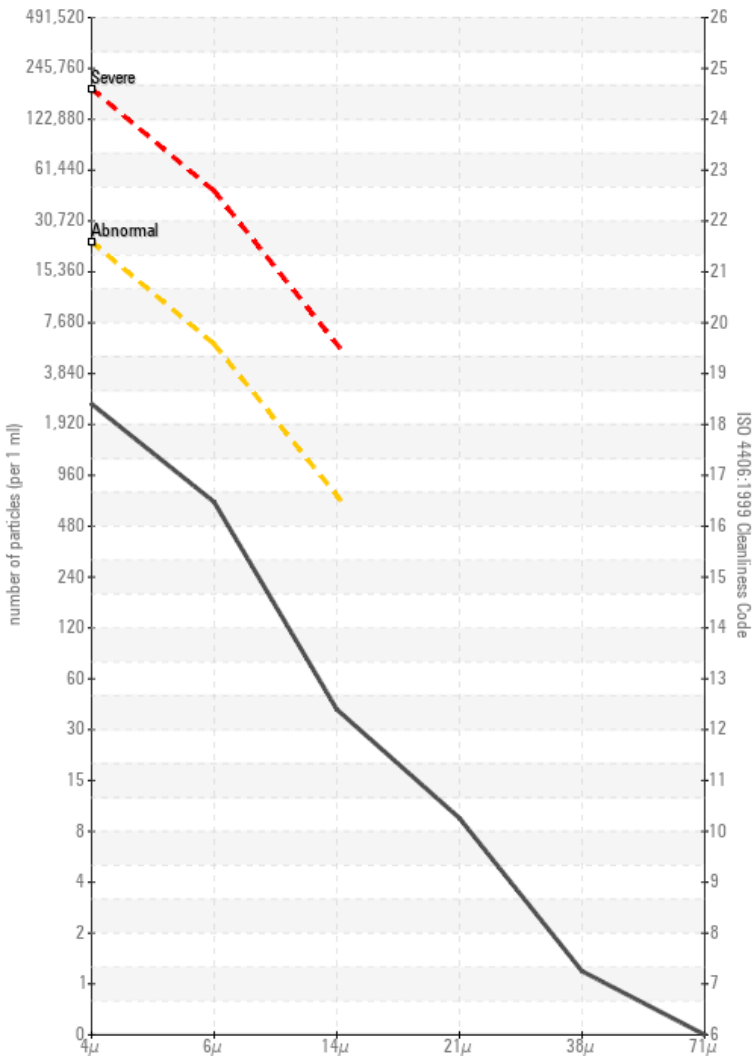
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

