

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 1200-72683 - Hydraulic System

Sample No: LH0235770

Oil Type: AW HYDRAULIC OIL ISO 46



SAMPLE INFORMATION

Sample Number	LH0235770	LH0217616	LHMC133977	LH0157898
Sample Date	27 Sep 2023	23 Mar 2023	06 Sep 2022	27 May 2020
Machine Hours	14243	13667	12693	11158
Oil Hours	0	1000	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	MARGINAL	MARGINAL	ATTENTION

SPARTAN RECYCLING

3071 HOWARD ST
SPARTANBURG, SC
US 29303

Contact: SERVICE MANAGER



OIL CONDITION

Visc @ 40°C	cSt	54.9	54.9	57.09	63.3
Acid Number (AN)	mg KOH/g	0.30	0.31	0.38	0.351

T:
F:



CONTAMINATION

Water	%	0.079	---	---	---
Particles >4µm		---	7779	6487	27990
Particles >6µm		---	785	1474	5923
Particles >14µm		---	22	56	218
ISO 4406:1999 (c)		---	20/17/12	20/18/13	22/20/15
Silicon	ppm	2	<1	1	1
Sodium	ppm	0	1	0	<1
Potassium	ppm	<1	<1	0	<1

Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. High concentration of visible dirt/debris present in the oil. The oil viscosity is higher than normal. Confirm oil type. The AN level is acceptable for this fluid.



WEAR METALS

Iron	ppm	20	20	22	32
Copper	ppm	3	3	3	3
Lead	ppm	<1	0	<1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	0	<1	<1	<1
Chromium	ppm	2	2	1	1
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

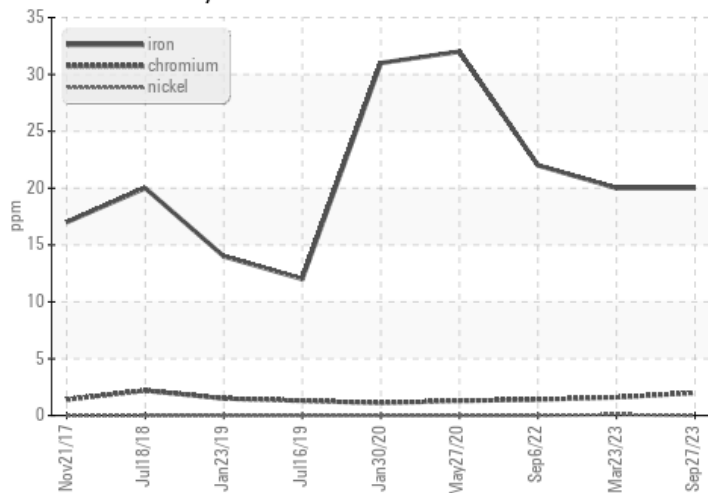
Calcium	ppm	27	29	29	37
Magnesium	ppm	26	30	21	<1
Zinc	ppm	297	307	308	329
Phosphorus	ppm	265	288	309	262
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	<1

Depot: SPASPALH
Unique No: 10674278
Signed: Don Baldrige
Report Date: 05 Oct 2023

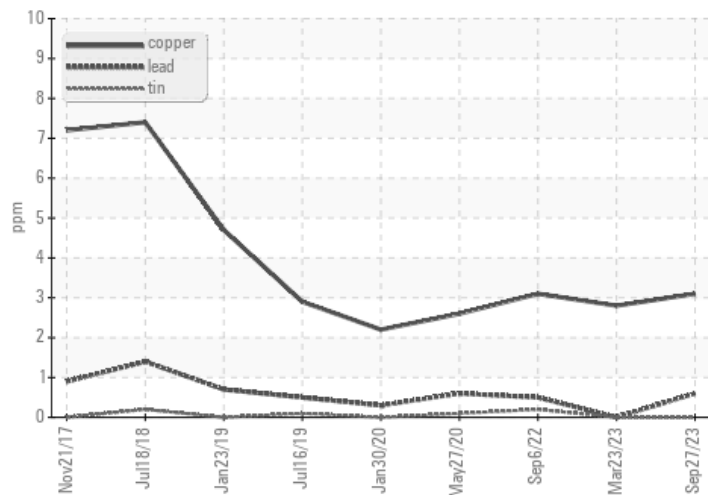


GRAPHS

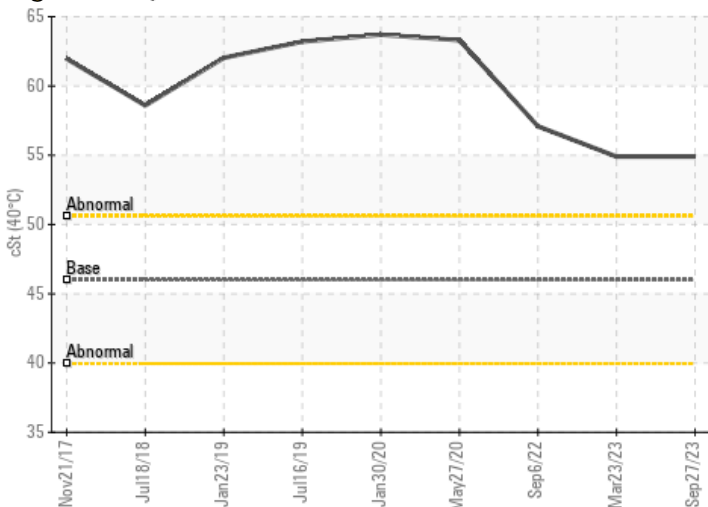
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

