

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 117414-1253 - Hydraulic System

Sample No: LH0235760

Oil Type: AW HYDRAULIC OIL ISO 46



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



SAMPLE INFORMATION

Sample Number	LH0235760	LH0217603	LHMC160751	LH0203973
Sample Date	26 Sep 2023	14 Jul 2022	03 Mar 2022	23 Nov 2021
Machine Hours	0	0	4332	3693
Oil Hours	0	0	4332	0
Oil Changed	N/A	N/A	Not Changd	N/A
Sample Status	ABNORMAL	ATTENTION	ABNORMAL	ABNORMAL



OIL CONDITION

Visc @ 40°C	cSt	56.4	52.9	49.4	47.1
Acid Number (AN)	mg KOH/g	0.47	0.66	0.76	0.756



CONTAMINATION

Water	%	0.071	---	---	---
Particles >4µm		---	27155	1978	12082
Particles >6µm		---	6381	465	2416
Particles >14µm		---	352	39	122
ISO 4406:1999 (c)		---	22/20/16	18/16/12	21/18/14
Silicon	ppm	2	1	2	2
Sodium	ppm	0	0	0	2
Potassium	ppm	<1	0	2	<1



WEAR METALS

Iron	ppm	93	37	92	82
Copper	ppm	5	2	6	6
Lead	ppm	<1	<1	1	1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	0	0	2	<1
Chromium	ppm	2	<1	2	2
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	2	<1	2	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	158	315	860	1007
Magnesium	ppm	48	9	12	7
Zinc	ppm	366	198	615	581
Phosphorus	ppm	282	170	469	451
Barium	ppm	0	0	0	0
Boron	ppm	0	<1	<1	4

T:
F:

Diagnosis

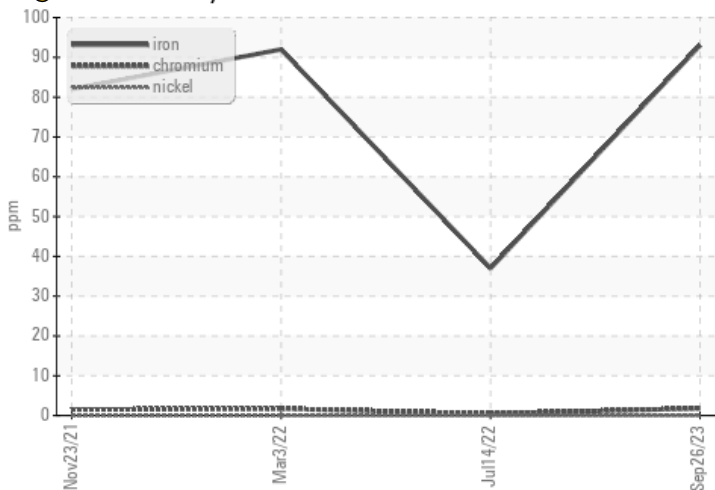
We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. The iron level is abnormal. High concentration of visible dirt/debris present in the oil. The oil viscosity is higher than normal. Confirm oil type. The AN level is acceptable for this fluid.

Depot: SPASPALH
Unique No: 10674274
Signed: Don Baldrige
Report Date: 05 Oct 2023

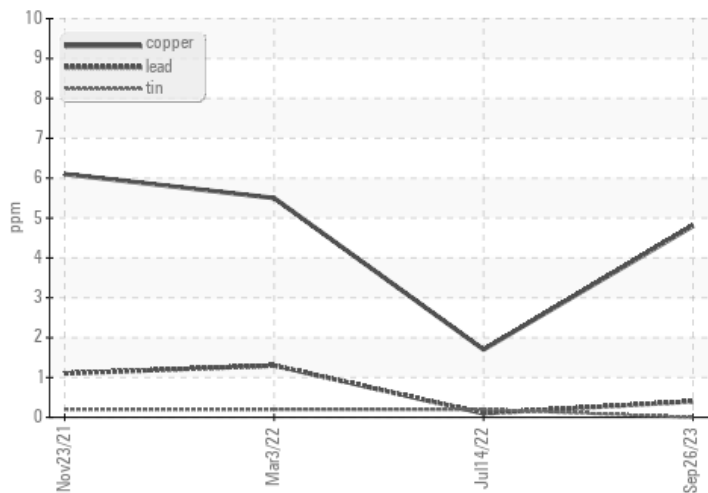


GRAPHS

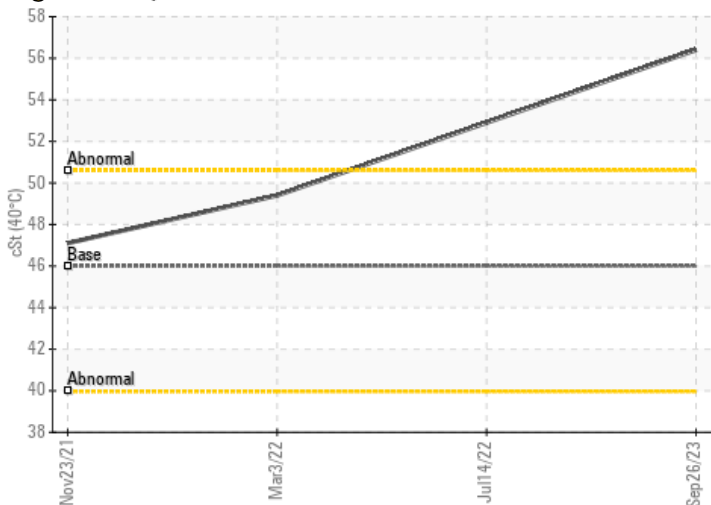
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

