

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 1253-133792 - Hydraulic System

Sample No: LH0272884

Oil Type: AW HYDRAULIC OIL ISO 46



C&C SCRAP IRON AND METALS INC
P.O. BOX 549
KING MOUNTAIN, NC
US 28086
Contact: Service Manager



SAMPLE INFORMATION

Sample Number	LH0272884	LHMC130311	---	---
Sample Date	19 Dec 2023	02 May 2023	---	---
Machine Hours	4231	3145	---	---
Oil Hours	0	1000	---	---
Oil Changed	Not Changd	Not Changd	---	---
Sample Status	NORMAL	MARGINAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 44.1	● 44.7	---	---
Acid Number (AN)	mg KOH/g	● 0.90	● 0.99	---	---

T:
F:



CONTAMINATION

Water	%	NEG	● 0.163	---	---
Particles >4µm		● 2089	● 1755	---	---
Particles >6µm		● 255	● 447	---	---
Particles >14µm		● 11	● 18	---	---
ISO 4406:1999 (c)		18/15/11	18/16/11	---	---
Silicon	ppm	● 3	● 3	---	---
Sodium	ppm	● 4	● 3	---	---
Potassium	ppm	● 0	● <1	---	---

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	● 27	● 23	---	---
Copper	ppm	● 7	● 5	---	---
Lead	ppm	● <1	● 0	---	---
Tin	ppm	● 0	● <1	---	---
Aluminum	ppm	● <1	● 2	---	---
Chromium	ppm	● 1	● 1	---	---
Molybdenum	ppm	● 0	<1	---	---
Nickel	ppm	● 0	● 0	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	● <1	<1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	● 1158	1300	---	---
Magnesium	ppm	● 4	1	---	---
Zinc	ppm	● 644	735	---	---
Phosphorus	ppm	● 533	591	---	---
Barium	ppm	● 0	0	---	---
Boron	ppm	● 0	0	---	---

Depot: CCSKIN
Unique No: 10802672
Signed: Don Baldrige
Report Date: 22 Dec 2023

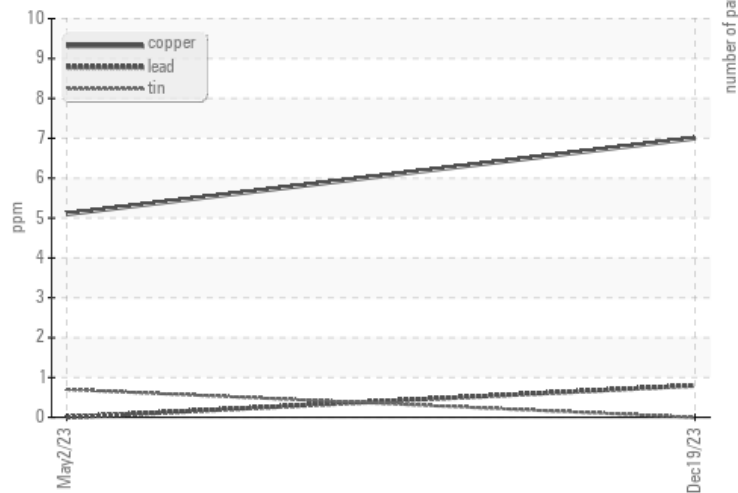


GRAPHS

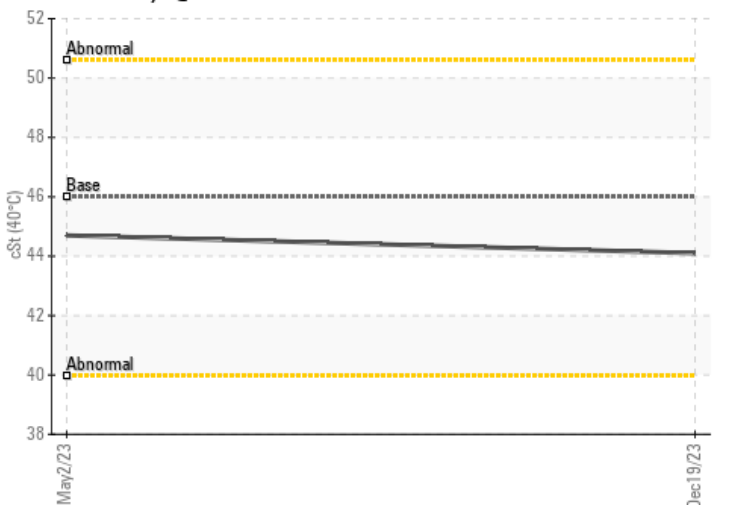
Ferrous Alloys



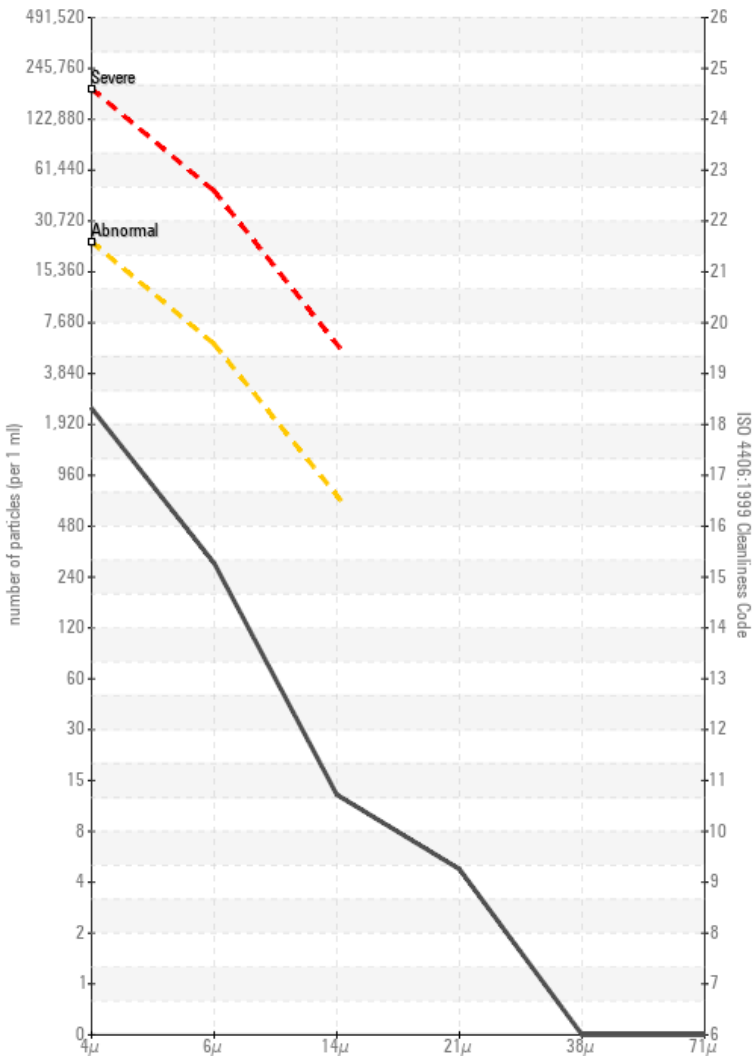
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

