

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L580 050217-1464 - Hydraulic System

Sample No: LH0258270

Oil Type: LIEBHERR HYDRAULIC HVI



SAMPLE INFORMATION

Sample Number	LH0258270	LH0174211	LHMC129374	---
Sample Date	12 Nov 2023	04 Dec 2020	01 Feb 2019	---
Machine Hours	5251	1795	527	---
Oil Hours	0	1000	527	---
Oil Changed	Not Changd	Not Changd	Not Changd	---
Sample Status	ATTENTION	ATTENTION	NORMAL	---

M&F CONCRETE PRODUCTS CO
4002 CATLETT RD
CATLETT, VA
US 20119
Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	65.0	44.9	46.33	---
Acid Number (AN)	mg KOH/g	0.51	1.103	1.104	---

T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		10289	22812	13862	---
Particles >6µm		2540	4697	985	---
Particles >14µm		136	343	45	---
ISO 4406:1999 (c)		21/19/14	22/19/16	21/17/13	---
Silicon	ppm	2	5	3	---
Sodium	ppm	3	2	2	---
Potassium	ppm	2	<1	8	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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	4	8	6	---
Copper	ppm	4	4	3	---
Lead	ppm	4	8	4	---
Tin	ppm	0	0	0	---
Aluminum	ppm	<1	2	1	---
Chromium	ppm	<1	1	<1	---
Molybdenum	ppm	0	0	0	---
Nickel	ppm	<1	0	<1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	<1	0	---
Manganese	ppm	<1	0	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

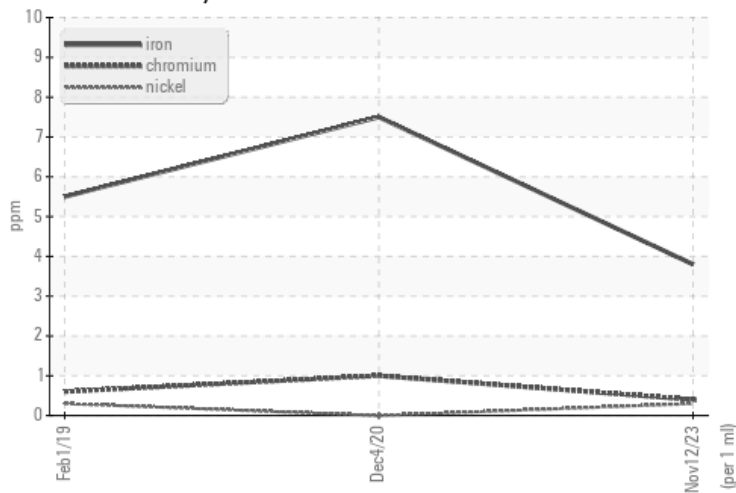
Calcium	ppm	1230	1375	1392	---
Magnesium	ppm	5	7	5	---
Zinc	ppm	437	642	685	---
Phosphorus	ppm	346	523	564	---
Barium	ppm	0	0	0	---
Boron	ppm	0	2	<1	---

Depot: MECCAT
Unique No: 10778423
Signed: Don Baldrige
Report Date: 11 Dec 2023

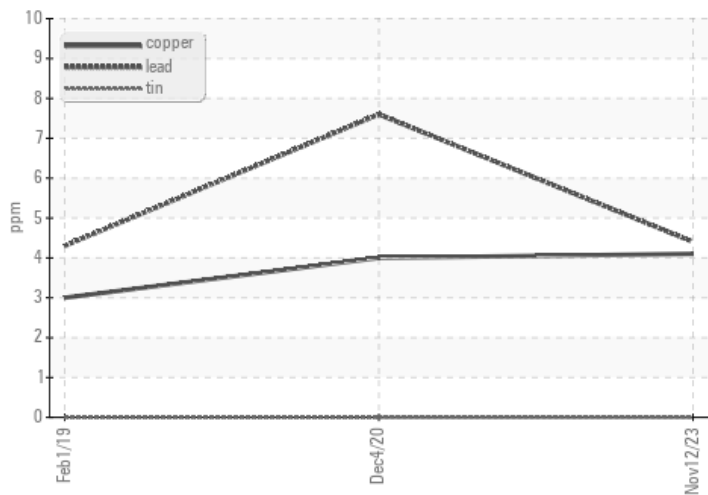


GRAPHS

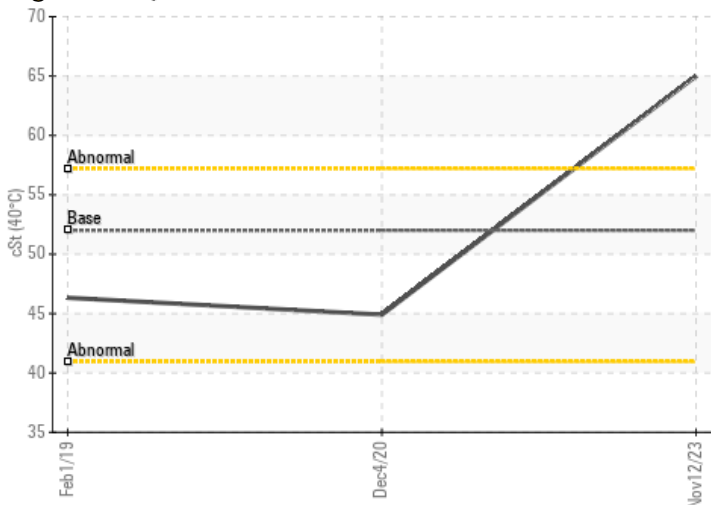
Ferrous Alloys



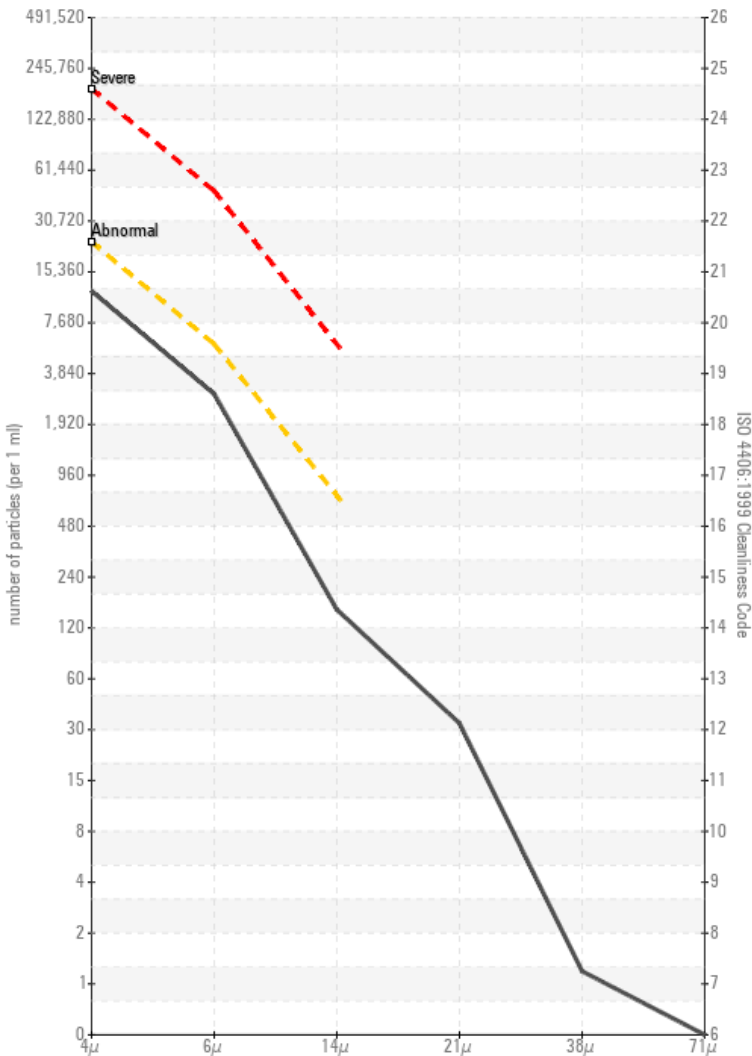
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

