

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50 1216-119204 - Hydraulic System

Sample No: LHMC141066

Oil Type: {unknown}



**ALTER TRADING**  
2424 CLARKE STREET  
PEORIA, IL  
US 61602  
Contact: Service Manager



#### Sample Information

Sample Number	LHMC141066	---	---	---
Sample Date	02 Feb 2021	---	---	---
Machine Hours	1119	---	---	---
Oil Hours	1119	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---



#### Oil Condition

Visc @ 40°C	cSt	● 44.7	---	---	---
Acid Number (AN)	mg KOH/g	● 1.109	---	---	---

T:  
F:



#### Contamination

Water	%	NEG	---	---	---
Particles >4µm		● 13192	---	---	---
Particles >6µm		● 2870	---	---	---
Particles >14µm		● 201	---	---	---
ISO 4406:1999 (c)		21/19/15	---	---	---
Silicon	ppm	● 0	---	---	---
Sodium	ppm	● 0	---	---	---
Potassium	ppm	● 2	---	---	---

#### 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### Wear Metals

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



#### Additives

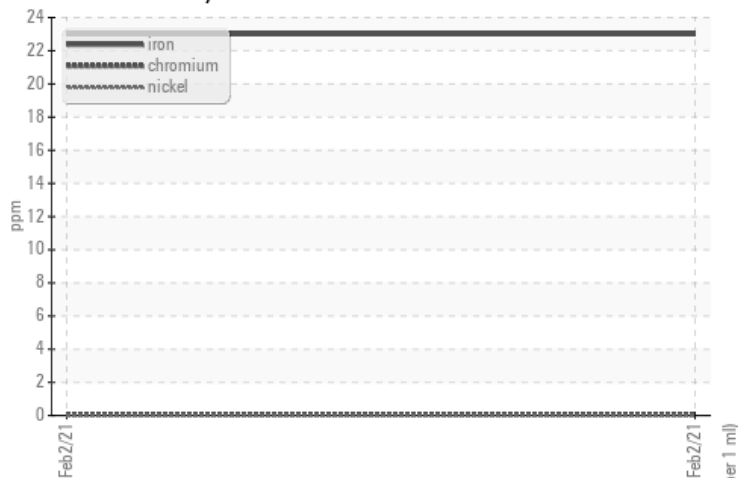
Calcium	ppm	1438	---	---	---
Magnesium	ppm	6	---	---	---
Zinc	ppm	742	---	---	---
Phosphorus	ppm	665	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	<1	---	---	---

**Depot:** ALTPEO  
**Unique No:** 9365741  
**Signed:** Don Baldrige  
**Report Date:** 12 Feb 2021



### Graphs

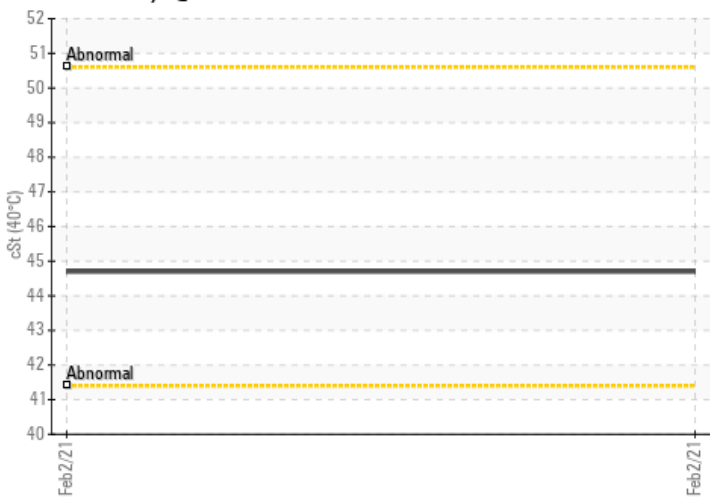
#### Ferrous Alloys



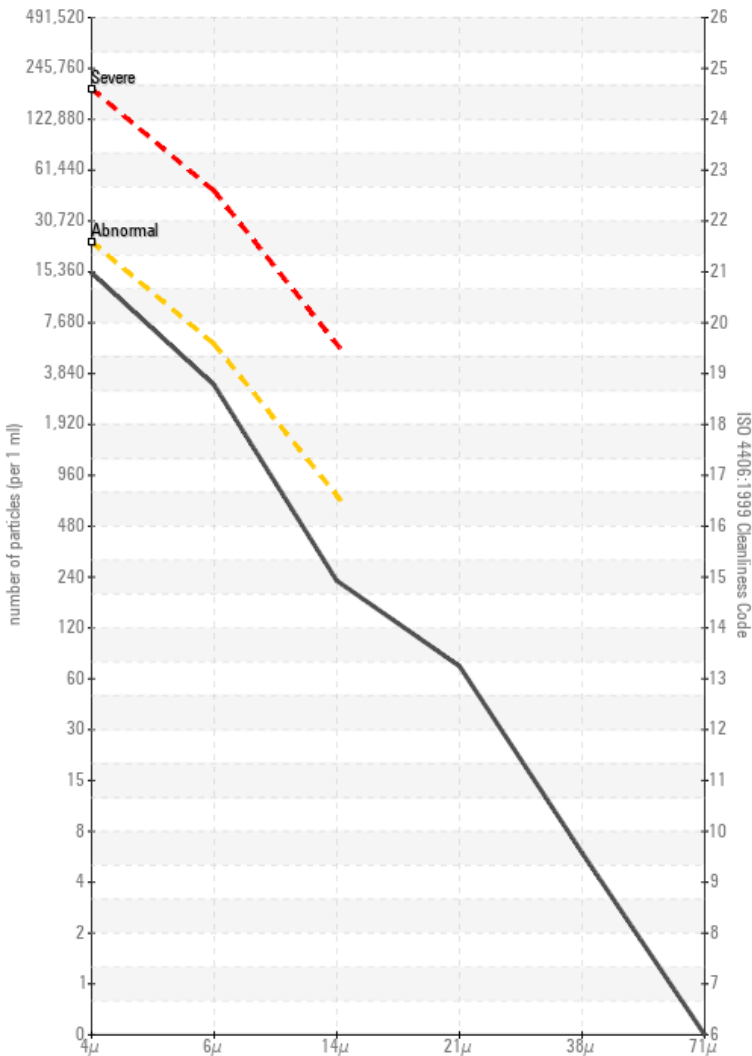
#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count



#### Acid Number

