

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60 109095 - Hydraulic System

Sample No: LH0258245

Oil Type: MV 47



SAMPLE INFORMATION

Sample Number	LH0258245	LH0244883	---	---
Sample Date	09 Oct 2023	03 Apr 2023	---	---
Machine Hours	10694	10147	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Changd	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---

INTEGRITY METALS

835 EAST INDUSTRIAL
MORRISTOWN, IN
US 46161

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T: (765)763-8000
F: (765)763-8001



OIL CONDITION

Visc @ 40°C	cSt	52.1	45.1	---	---
Acid Number (AN)	mg KOH/g	0.46	0.53	---	---



CONTAMINATION

Particles >4µm		2062	5988	---	---
Particles >6µm		403	430	---	---
Particles >14µm		17	18	---	---
ISO 4406:1999 (c)		18/16/11	20/16/11	---	---
Silicon	ppm	3	5	---	---
Sodium	ppm	3	2	---	---
Potassium	ppm	0	0	---	---

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	5	9	---	---
Copper	ppm	3	2	---	---
Lead	ppm	<1	0	---	---
Tin	ppm	<1	0	---	---
Aluminum	ppm	<1	<1	---	---
Chromium	ppm	3	4	---	---
Molybdenum	ppm	0	<1	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

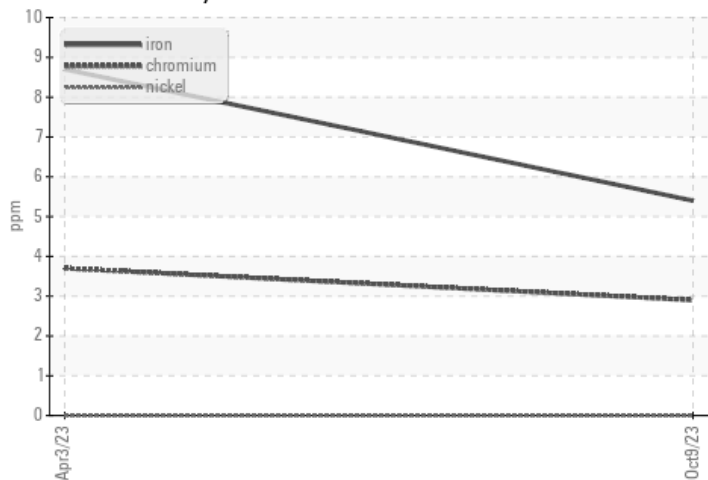
Calcium	ppm	374	586	---	---
Magnesium	ppm	2	7	---	---
Zinc	ppm	536	520	---	---
Phosphorus	ppm	422	422	---	---
Barium	ppm	0	0	---	---
Boron	ppm	0	0	---	---

Depot: INTMORLH
Unique No: 10702784
Signed: Don Baldrige
Report Date: 24 Oct 2023

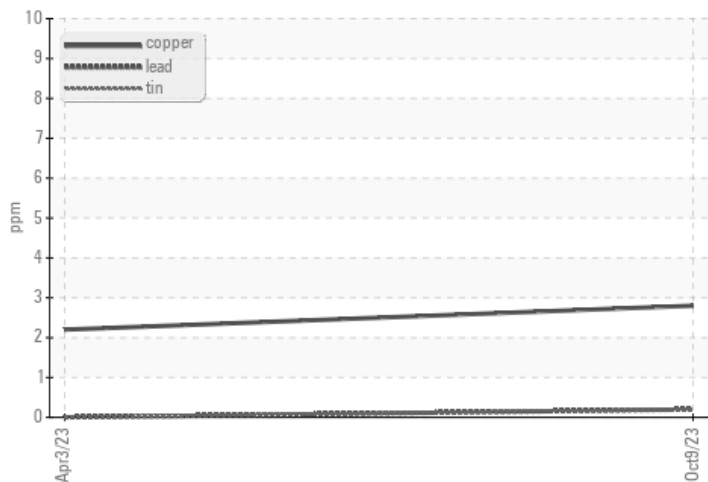


GRAPHS

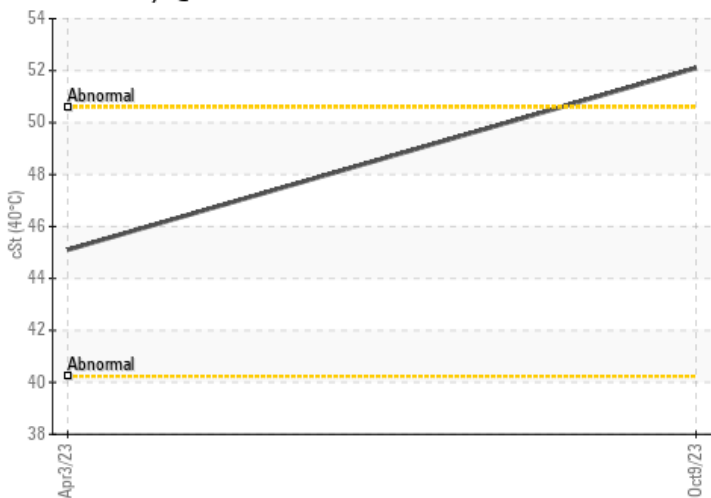
Ferrous Alloys



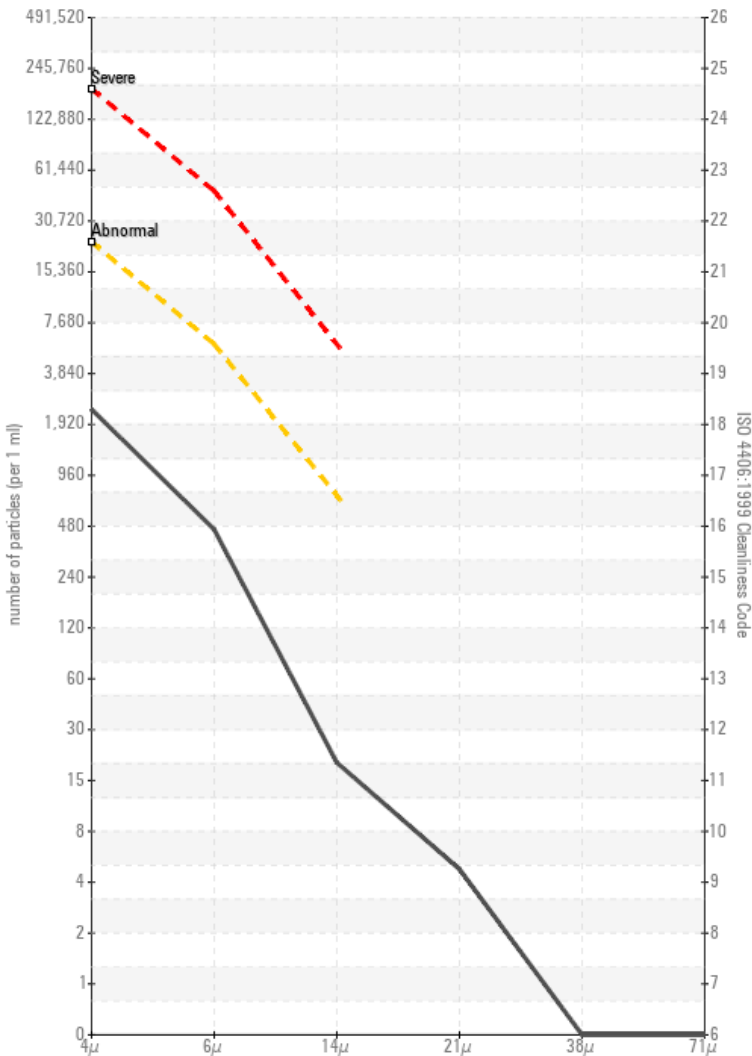
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

