

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH110 115021-1228 - Hydraulic System

Sample No: LH0273242

Oil Type: LYDEN 68



RECO EQUIPMENT INC.

41245 RECO RD

BELMONT, OH

US 43718

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Sample Information

Sample Number	LH0273242	LH0273788	---	---
Sample Date	24 May 2024	17 Apr 2024	---	---
Machine Hours	8630	8631	---	---
Oil Hours	50	503	---	---
Oil Changed	Not Chngd	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---



Oil Condition

Visc @ 40°C	cSt	61.1	58.3	---	---
Acid Number (AN)	mg KOH/g	0.23	0.14	---	---



Contamination

Water	%	NEG	0.120	---	---
Particles >4µm		11116	2184	---	---
Particles >6µm		1296	1190	---	---
Particles >14µm		64	202	---	---
ISO 4406:1999 (c)		21/17/13	18/17/15	---	---
Silicon	ppm	0	1	---	---
Sodium	ppm	0	1	---	---
Potassium	ppm	<1	<1	---	---



Wear Metals

Iron	ppm	3	36	---	---
Copper	ppm	1	5	---	---
Lead	ppm	0	0	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	2	<1	---	---
Chromium	ppm	<1	1	---	---
Molybdenum	ppm	<1	0	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	0	1	---	---
Vanadium	ppm	0	0	---	---



Additives

Calcium	ppm	65	67	---	---
Magnesium	ppm	4	5	---	---
Zinc	ppm	466	453	---	---
Phosphorus	ppm	364	370	---	---
Barium	ppm	0	0	---	---
Boron	ppm	0	0	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The water content is negligible. 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.

Depot: LEC0071

Unique No: 11070126

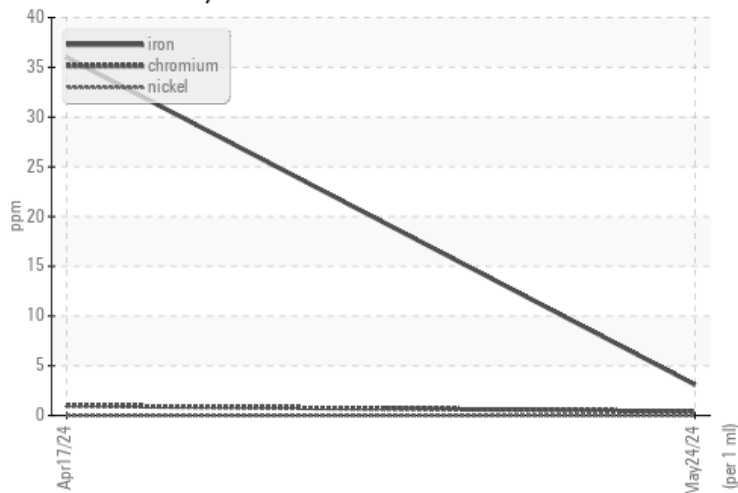
Signed: Don Baldrige

Report Date: 10 Jun 2024

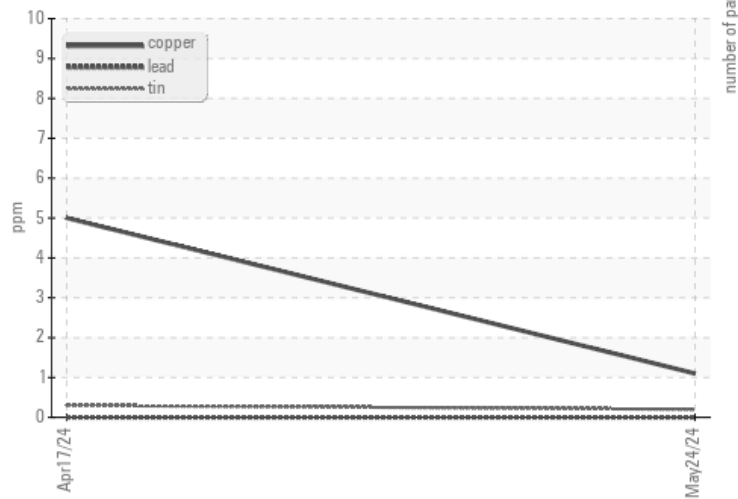


Graphs

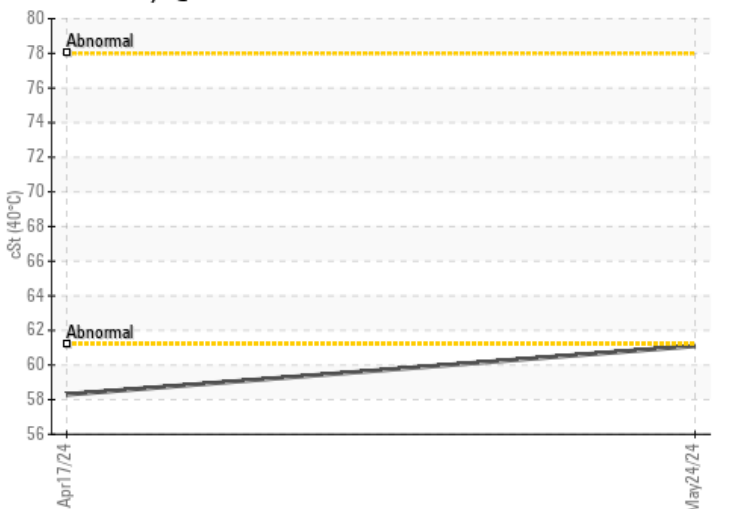
Ferrous Alloys



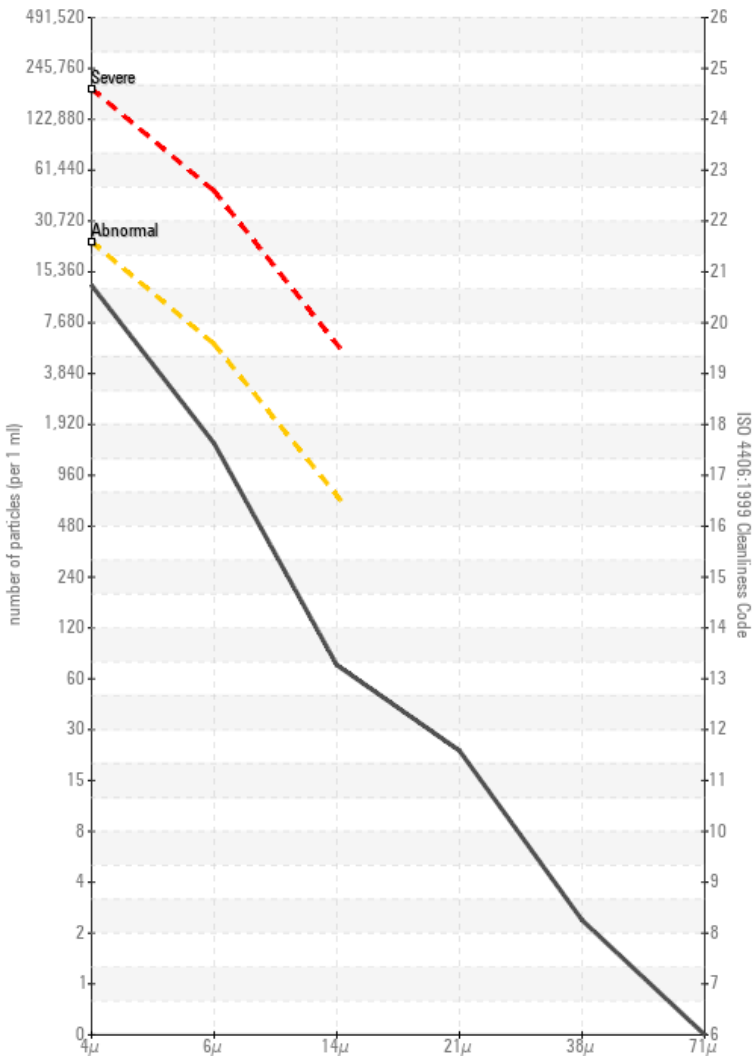
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

