

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60 115240-1529 - Hydraulic System

Sample No: LH0254120

Oil Type: LIEBHERR HYDRAULIC HVI



DAVIS INDUSTRIAL INC.
 9920 RICHMOND HIGHWAY
 LORTON, VA
 US 22079
 Contact: JAMIE
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 T:
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SAMPLE INFORMATION

Sample Number	LH0254120	LHMC116228	---	---
Sample Date	17 Jun 2023	29 Sep 2022	---	---
Machine Hours	4033	2906	---	---
Oil Hours	775	0	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	ABNORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 42.9	● 42.2	---	---
Acid Number (AN)	mg KOH/g	● 1.14	● 1.06	---	---



CONTAMINATION

Particles >4µm		● 7551	● 4013	---	---
Particles >6µm		● 1208	● 567	---	---
Particles >14µm		● 20	● 27	---	---
ISO 4406:1999 (c)		20/17/11	19/16/12	---	---
Silicon	ppm	● 7	● 7	---	---
Sodium	ppm	● 2	● 1	---	---
Potassium	ppm	● 4	● 0	---	---



WEAR METALS

Iron	ppm	● 70	● 50	---	---
Copper	ppm	● 9	● 7	---	---
Lead	ppm	● 2	● 1	---	---
Tin	ppm	● 0	● 0	---	---
Aluminum	ppm	● 1	● <1	---	---
Chromium	ppm	● <1	● <1	---	---
Molybdenum	ppm	● 0	● 0	---	---
Nickel	ppm	● 0	● 0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	● <1	● <1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	590	804	---	---
Magnesium	ppm	● 6	● 4	---	---
Zinc	ppm	● 646	● 614	---	---
Phosphorus	ppm	● 534	● 514	---	---
Barium	ppm	● 0	● 0	---	---
Boron	ppm	● 0	● 0	---	---

Diagnosis

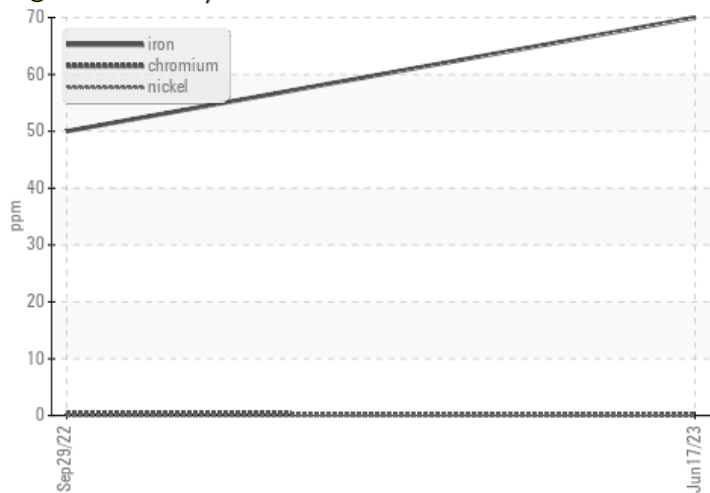
No corrective action is recommended at this time. Resample at the next service interval to monitor. The iron level is abnormal. All other component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: DAVLORVA
 Unique No: 10559337
 Signed: Don Baldrige
 Report Date: 17 Jul 2023

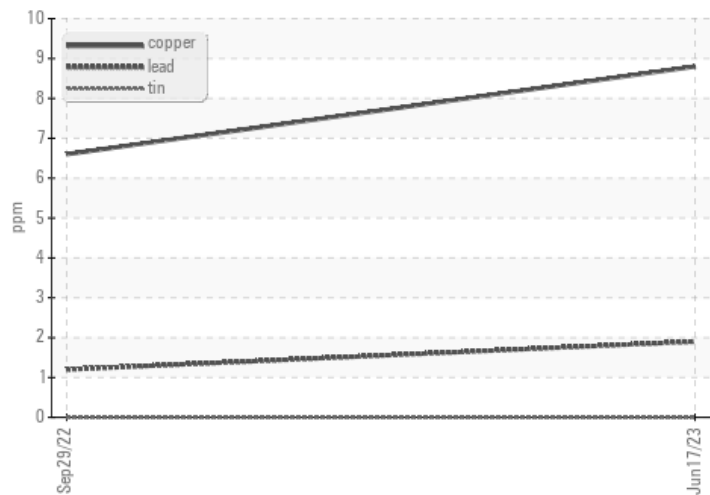


GRAPHS

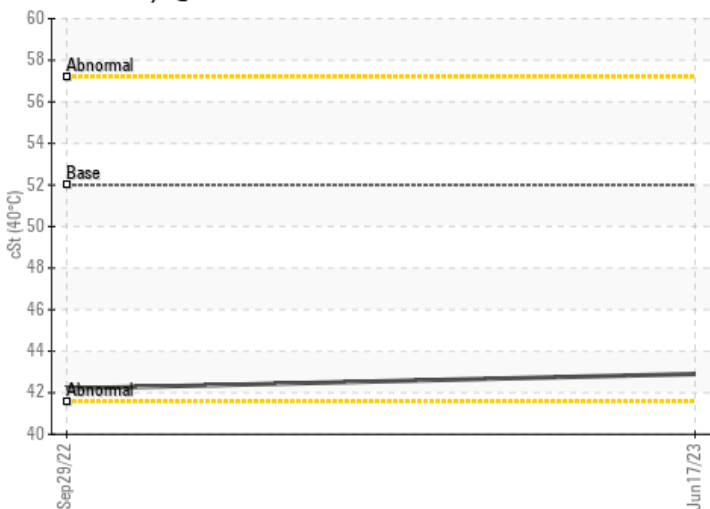
● Ferrous Alloys



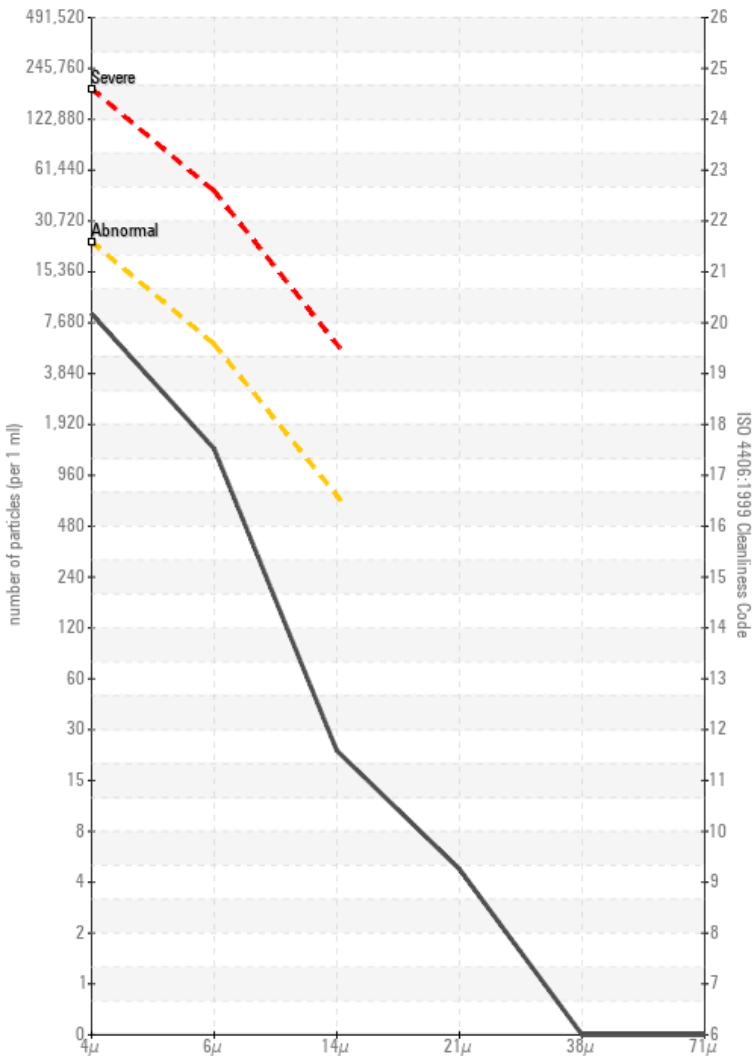
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

