

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH80M 1218-157090 - Hydraulic System

Sample No: LH0282873

Oil Type: TDH



Sample Information

Sample Number	LH0282873	LH0282884	LH0282895	---
Sample Date	18 May 2024	19 Apr 2024	19 Mar 2024	---
Machine Hours	1559	997	545	---
Oil Hours	0	0	0	---
Oil Changed	Not Changd	Not Changd	Not Changd	---
Sample Status	NORMAL	NORMAL	NORMAL	---

KINDER MORGAN

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TRINITY, AL

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Oil Condition

Visc @ 40°C	cSt	41.5	43.2	45.1	---
Acid Number (AN)	mg KOH/g	1.12	1.17	1.29	---



Contamination

Water	%	NEG	NEG	NEG	---
Particles >4µm		1469	5272	4161	---
Particles >6µm		172	732	643	---
Particles >14µm		8	33	26	---
ISO 4406:1999 (c)		18/15/10	20/17/12	19/17/12	---
Silicon	ppm	5	5	4	---
Sodium	ppm	<1	2	1	---
Potassium	ppm	<1	1	0	---



Wear Metals

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



Additives

Calcium	ppm	1840	1598	1564	---
Magnesium	ppm	29	20	6	---
Zinc	ppm	838	765	749	---
Phosphorus	ppm	737	702	661	---
Barium	ppm	0	0	0	---
Boron	ppm	8	3	1	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: KINTRI

Unique No: 11048884

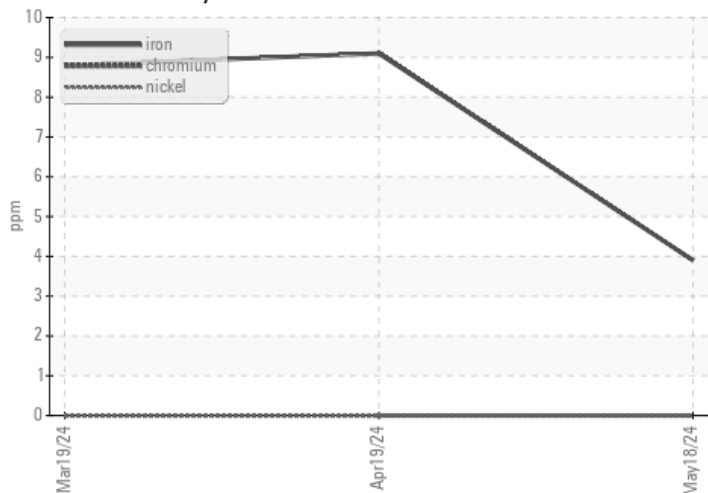
Signed: Wes Davis

Report Date: 29 May 2024

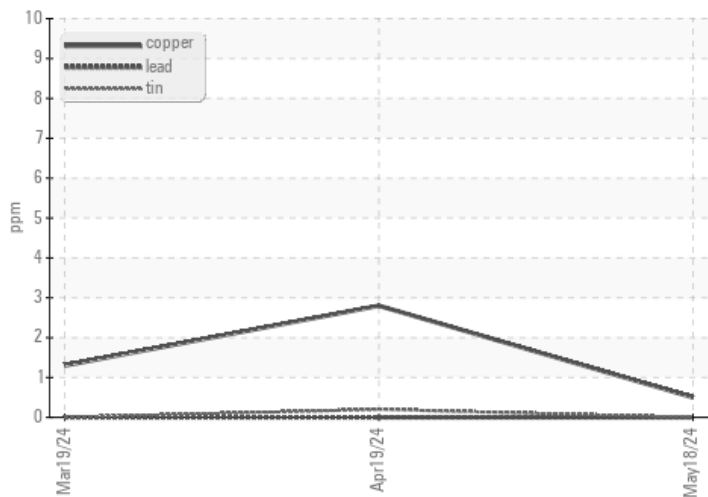


Graphs

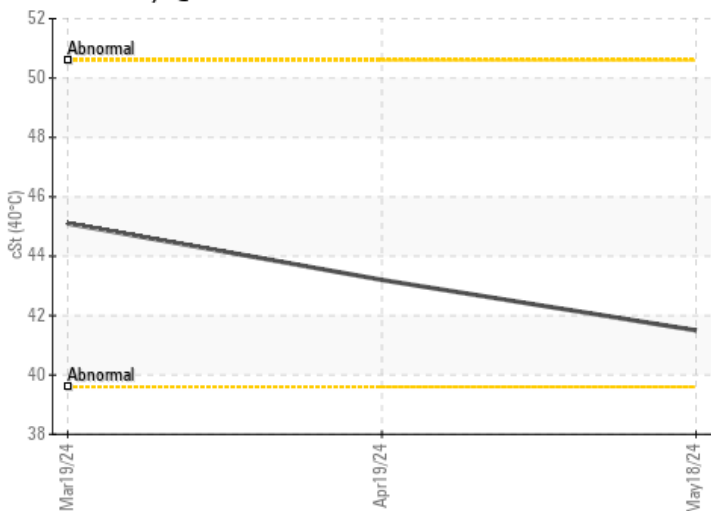
Ferrous Alloys



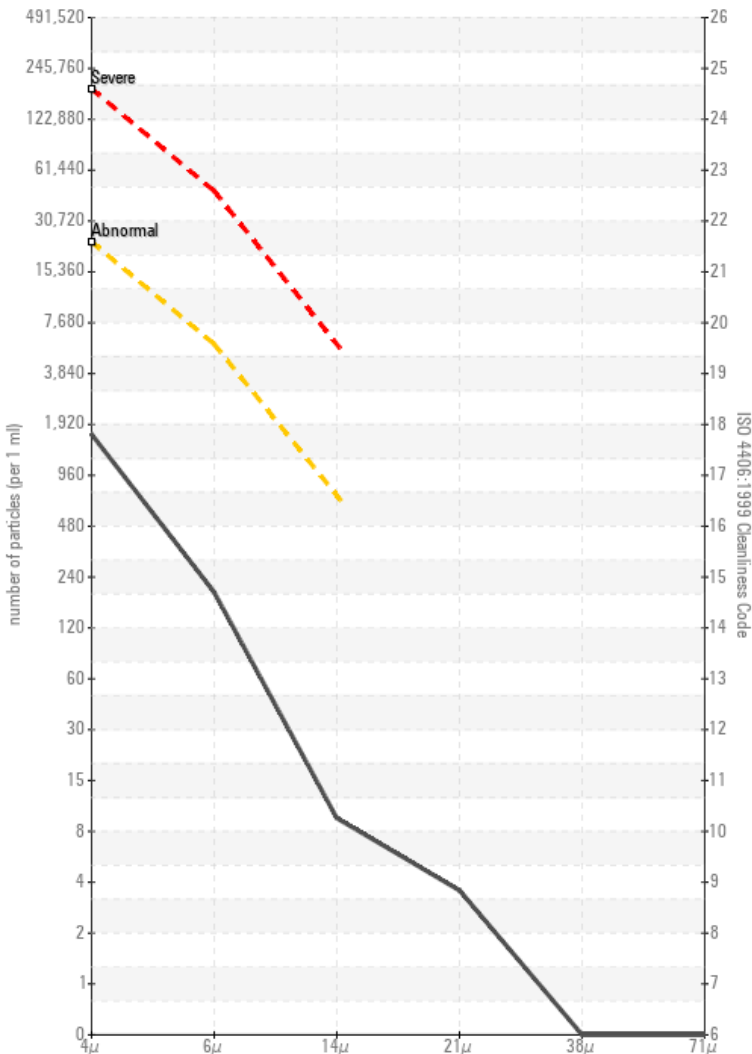
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

