LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR LH110 1227-155752 - Hydraulic System

Sample No: LH0280573

Oil Type: TDH

KINDER MORGAN
4301 IVERSON
TRINITY, AL
US 35601
Contact: CHIP OAKES

T: (256)350-0006
F: (256)355-5250

SAMPLE INFORMATION

Sample Number		**LH0280573**	LH0280562	---	---
Sample Date		**20 Feb 2024**	11 Jan 2024	---	---
Machine Hours		**1022**	507	---	---
Oil Hours		**0**	0	---	---
Oil Changed		**Not Changd**	Not Changd	---	---
Sample Status		**NORMAL**	ABNORMAL	---	---

OIL CONDITION

Visc @ 40°C	cSt	**44.2**	45.1	---	---
Acid Number (AN)	mg KOH/g	**1.16**	1.17	---	---

CONTAMINATION

Water	%	**NEG**	NEG	---	---
Particles >4µm		**6065**	54035	---	---
Particles >6µm		**1136**	14882	---	---
Particles >14µm		**55**	616	---	---
ISO 4406:1999 (c)		**20/17/13**	23/21/16	---	---
Silicon	ppm	**5**	4	---	---
Sodium	ppm	**2**	0	---	---
Potassium	ppm	**0**	1	---	---

WEAR METALS

Iron	ppm	**6**	7	---	---
Copper	ppm	**3**	2	---	---
Lead	ppm	**0**	0	---	---
Tin	ppm	**0**	0	---	---
Aluminum	ppm	**0**	3	---	---
Chromium	ppm	**<1**	<1	---	---
Molybdenum	ppm	**0**	0	---	---
Nickel	ppm	**0**	0	---	---
Titanium	ppm	**<1**	0	---	---
Silver	ppm	**0**	0	---	---
Manganese	ppm	**<1**	0	---	---
Vanadium	ppm	**0**	0	---	---

ADDITIVES

Calcium	ppm	**1310**	1370	---	---
Magnesium	ppm	**2**	8	---	---
Zinc	ppm	**620**	740	---	---
Phosphorus	ppm	**598**	655	---	---
Barium	ppm	**0**	0	---	---
Boron	ppm	**0**	0	---	---

Diagnosis

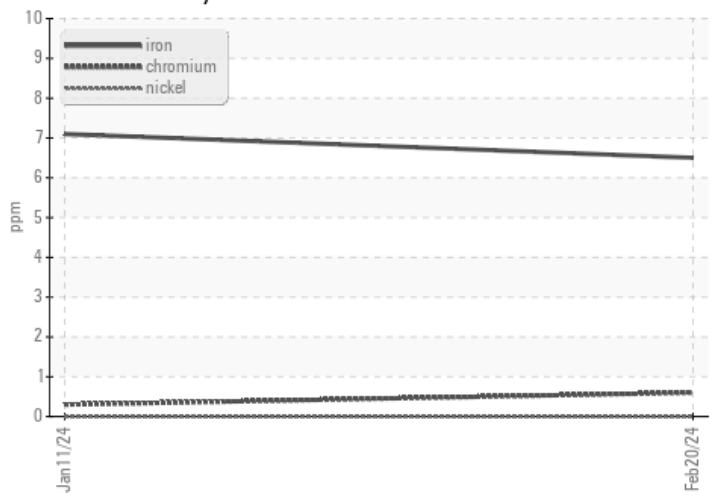
Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further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

Depot: KINTRI
Unique No: 10898300
Signed: Wes Davis
Report Date: 27 Feb 2024

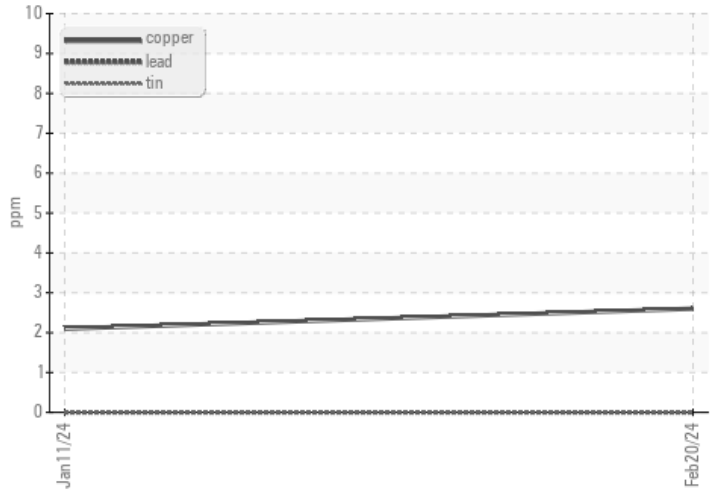
LIEBHERR
CONSTRUCTION EQUIPMENT

GRAPHS

Ferrous Alloys

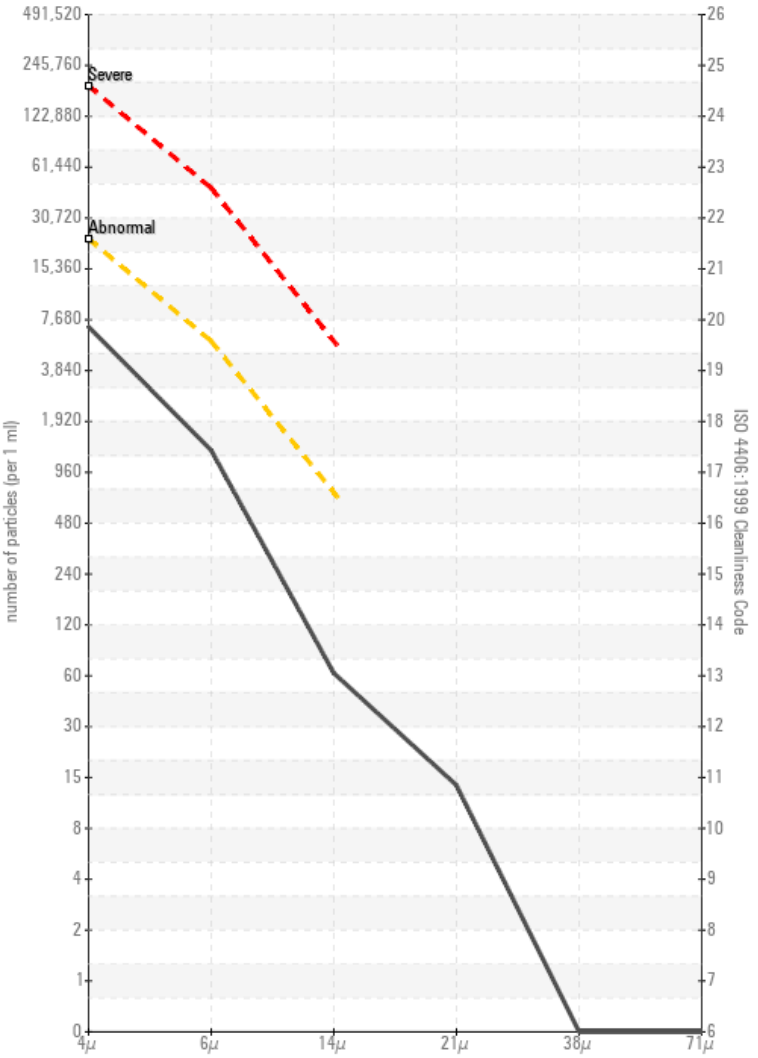


Non-ferrous Metals



Viscosity @ 40°C

Particle Count



Acid Number