

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH110 155976-1227 - 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	---	---	---
Sample Date	23 Feb 2024	---	---	---
Machine Hours	995	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ATTENTION	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 43.2	---	---	---
Acid Number (AN)	mg KOH/g	● 1.47	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		● 31382	---	---	---
Particles >6µm		● 7078	---	---	---
Particles >14µm		● 536	---	---	---
ISO 4406:1999 (c)		22/20/16	---	---	---
Silicon	ppm	● 7	---	---	---
Sodium	ppm	● <1	---	---	---
Potassium	ppm	● 2	---	---	---



WEAR METALS

Iron	ppm	● 12	---	---	---
Copper	ppm	● 2	---	---	---
Lead	ppm	● <1	---	---	---
Tin	ppm	● <1	---	---	---
Aluminum	ppm	● 1	---	---	---
Chromium	ppm	● 1	---	---	---
Molybdenum	ppm	2	---	---	---
Nickel	ppm	● <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	1503	---	---	---
Magnesium	ppm	15	---	---	---
Zinc	ppm	784	---	---	---
Phosphorus	ppm	669	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	4	---	---	---

Diagnosis

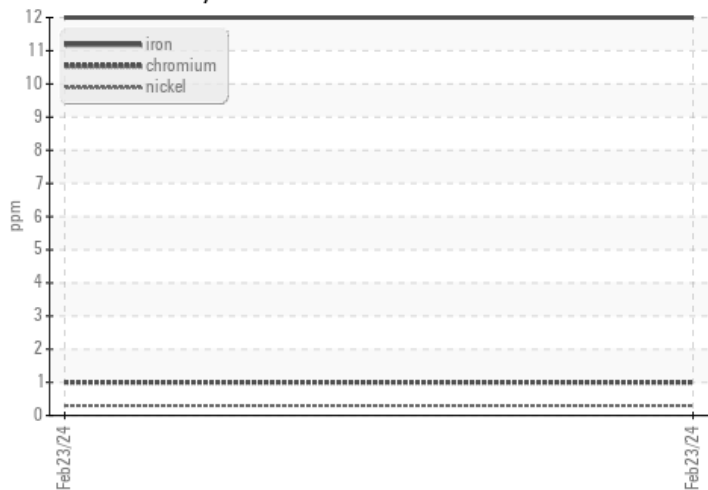
The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: KINTRI
Unique No: 10902501
Signed: Wes Davis
Report Date: 01 Mar 2024

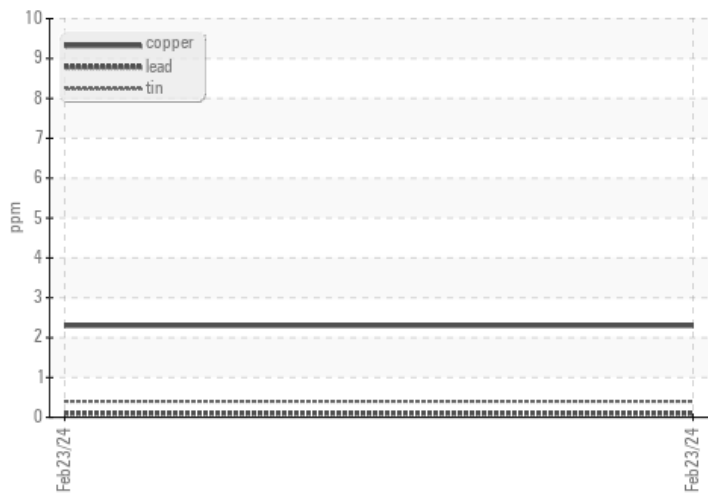


GRAPHS

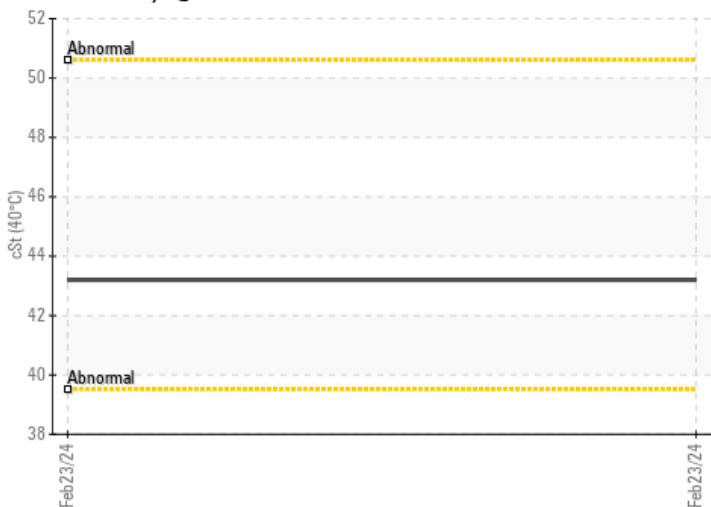
Ferrous Alloys



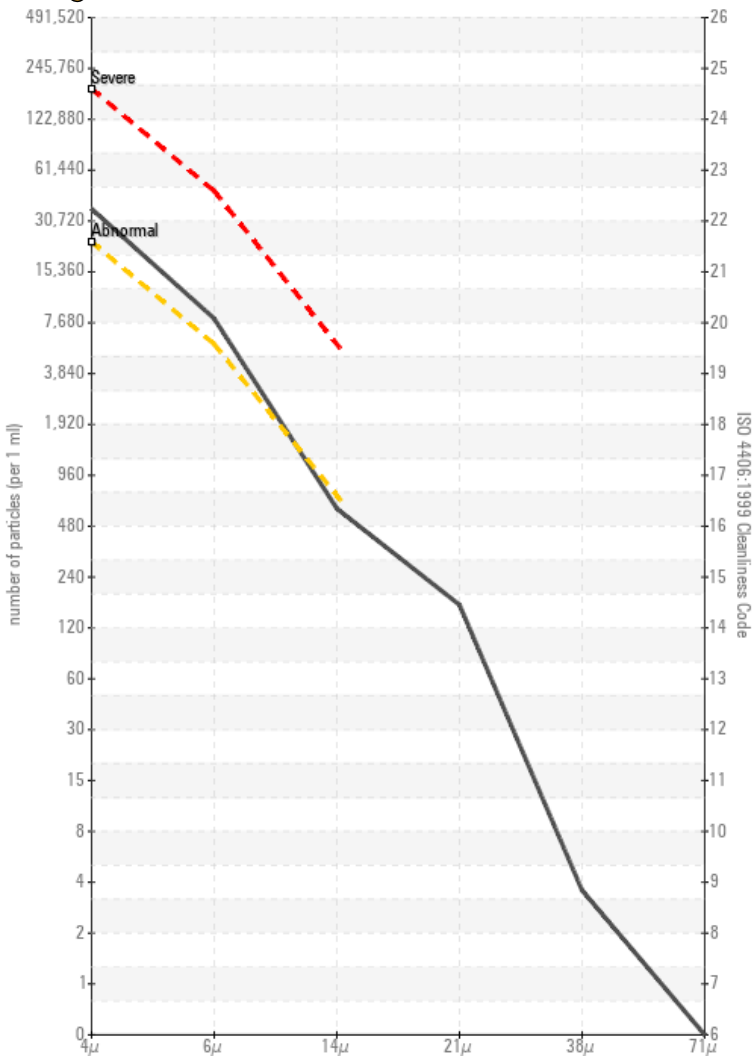
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

