

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH110 1227-155752 - Hydraulic System

Sample No: LH0280562

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	LH0280562	---	---	---
Sample Date	11 Jan 2024	---	---	---
Machine Hours	507	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

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



CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		54035	---	---	---
Particles >6µm		14882	---	---	---
Particles >14µm		616	---	---	---
ISO 4406:1999 (c)		23/21/16	---	---	---
Silicon	ppm	4	---	---	---
Sodium	ppm	0	---	---	---
Potassium	ppm	1	---	---	---

Diagnosis

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



WEAR METALS

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



ADDITIVES

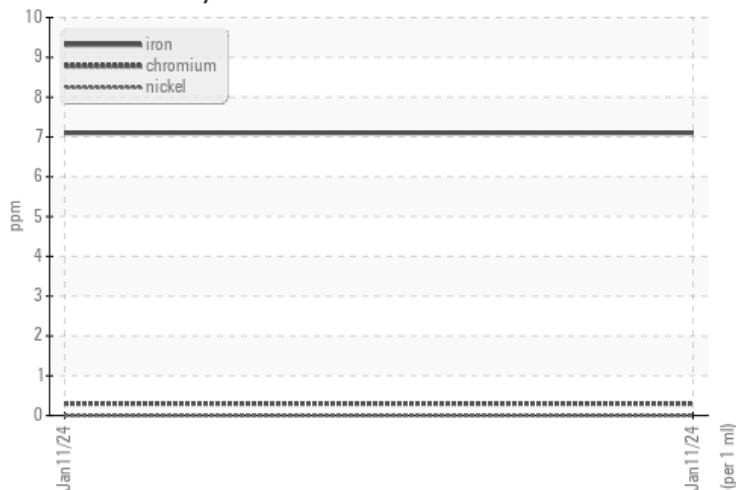
Calcium	ppm	1370	---	---	---
Magnesium	ppm	8	---	---	---
Zinc	ppm	740	---	---	---
Phosphorus	ppm	655	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	0	---	---	---

Depot: KINTRI
Unique No: 10848244
Signed: Wes Davis
Report Date: 29 Jan 2024

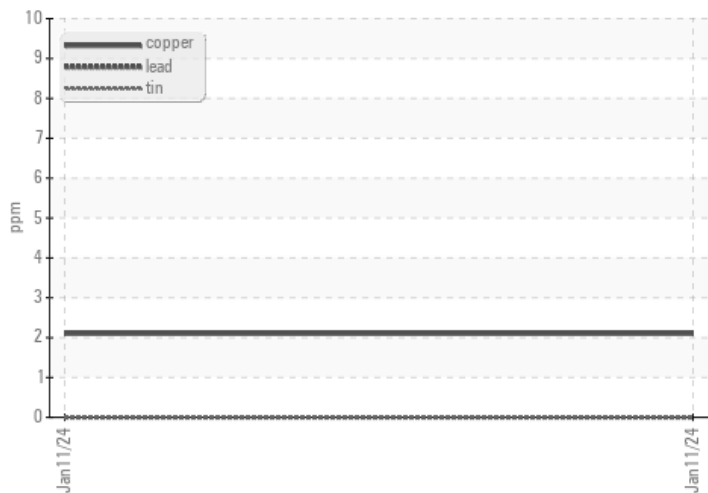


GRAPHS

Ferrous Alloys



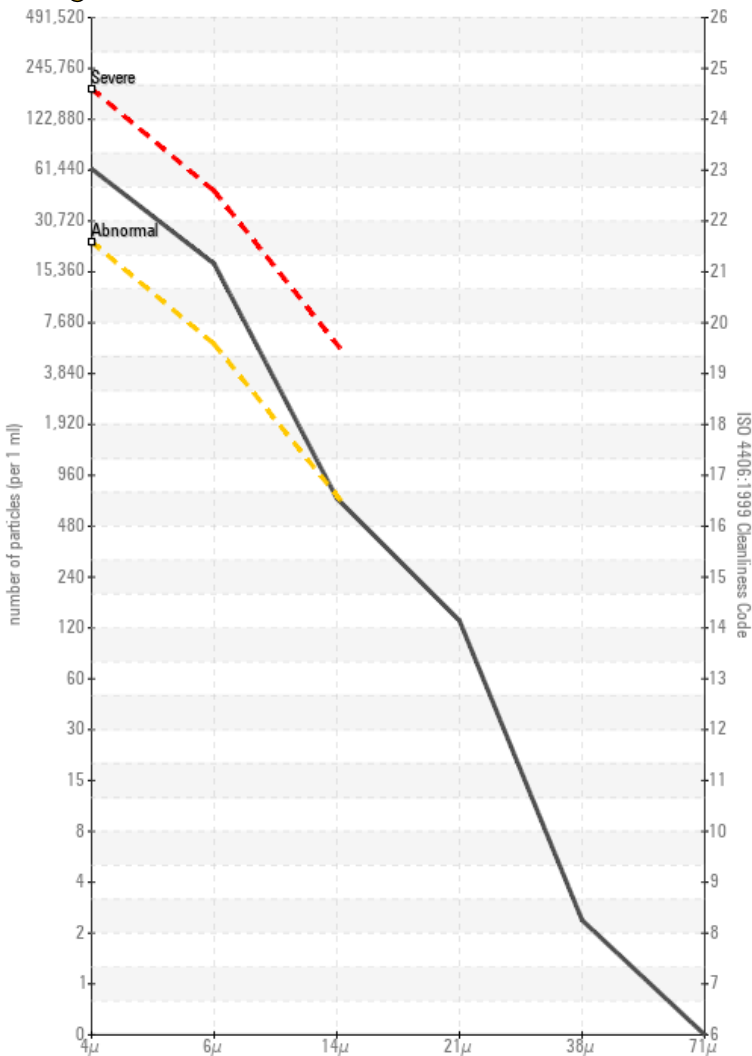
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

