LIEBHERR
CONSTRUCTION EQUIPMENT

284 - Hydraulic System

Sample No: LH0265083

Oil Type: NOT GIVEN

SAMPLE INFORMATION

Sample Number		**LH0265083**	---	---	---
Sample Date		**13 Dec 2023**	---	---	---
Machine Hours		**24504**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**Not Changd**	---	---	---
Sample Status		**NORMAL**	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	**37.0**	---	---	---

CONTAMINATION

Water	%	**NEG**	---	---	---
Particles >4µm		**5300**	---	---	---
Particles >6µm		**1797**	---	---	---
Particles >14µm		**121**	---	---	---
ISO 4406:1999 (c)		**20/18/14**	---	---	---
Silicon	ppm	**4**	---	---	---
Sodium	ppm	**1**	---	---	---
Potassium	ppm	**2**	---	---	---

WEAR METALS

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

ADDITIVES

Calcium	ppm	**3019**	---	---	---
Magnesium	ppm	**14**	---	---	---
Zinc	ppm	**1136**	---	---	---
Phosphorus	ppm	**963**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**<1**	---	---	---

Liebherr-Canada Ltd.
Fort McKay Industrial Park, Lot No. 12 and 13
Fort McMurray, AB
CA T9H 5N3
Contact: Corey Ekroth
corey.ekroth@liebherr.com
T: (780)791-2967
F:

Diagnosis

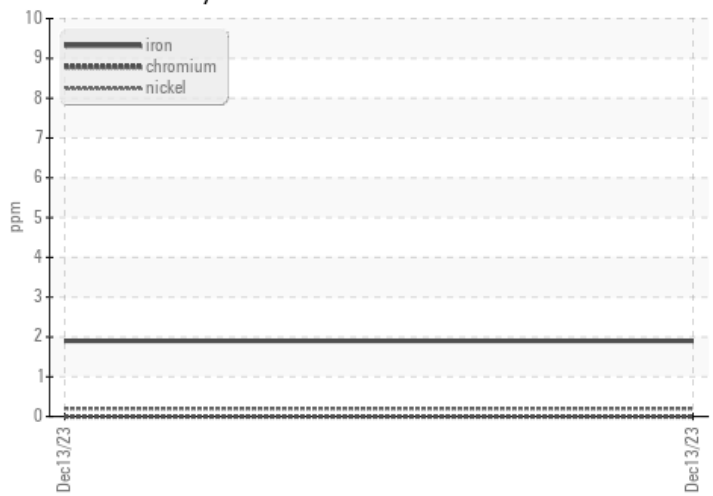
Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 70W80 Tractor TDH Fluid. Please confirm the oil type and grade, and specify the brand of the oil on your next sample.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The condition of the oil is acceptable for the time in service.

Depot: LIEFTM
Unique No: 5697516
Signed: Kevin Marson
Report Date: 21 Dec 2023

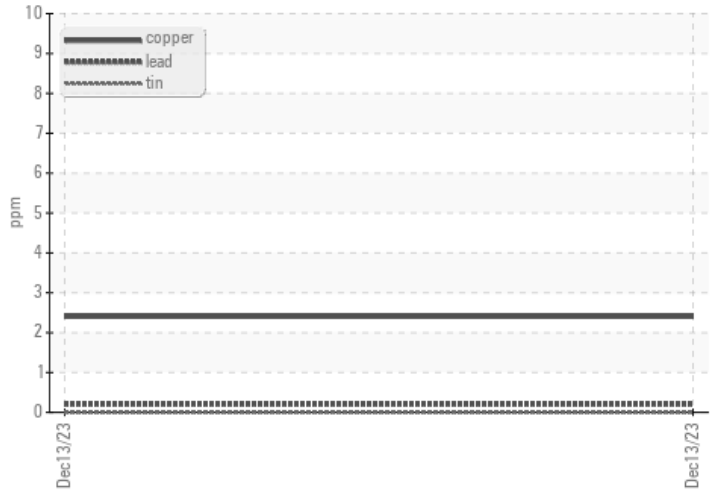
LIEBHERR
CONSTRUCTION EQUIPMENT

GRAPHS

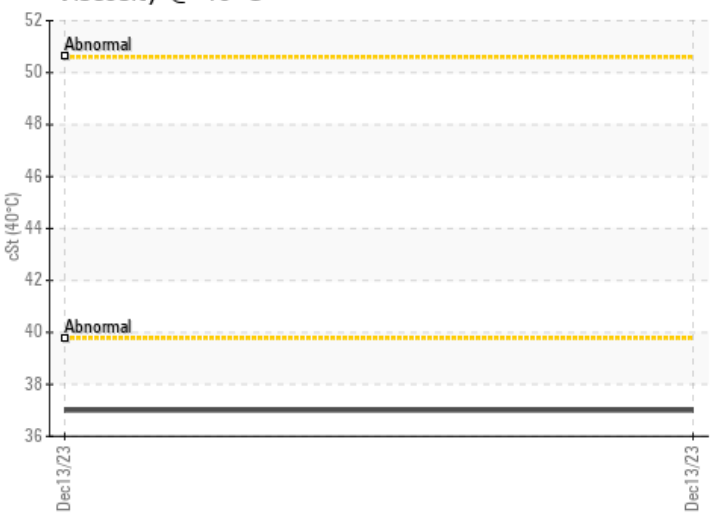
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count