LIEBHERR
CONSTRUCTION EQUIPMENT

[[597382]] LIEBHERR LH60M 143114-1217 - Hydraulic System

Sample No: LH0280979

Oil Type: {unknown}

INLAND STEEL PRODUCTS INC.
1009 37 AVENUE
LLOYDMINSTER, SK
CA S9V 1K5
Contact: Service Manager

T:
F:

SAMPLE INFORMATION

Sample Number		**LH0280979**	---	---	---
Sample Date		**06 Feb 2024**	---	---	---
Machine Hours		**2907**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**Not Changd**	---	---	---
Sample Status		**ABNORMAL**	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	**38.5**	---	---	---

CONTAMINATION

Water	%	**0.041**	---	---	---
Particles >4µm		**16948**	---	---	---
Particles >6µm		**6052**	---	---	---
Particles >14µm		**318**	---	---	---
ISO 4406:1999 (c)		**21/20/15**	---	---	---
Silicon	ppm	**3**	---	---	---
Sodium	ppm	**<1**	---	---	---
Potassium	ppm	**1**	---	---	---

WEAR METALS

Iron	ppm	**16**	---	---	---
Copper	ppm	**3**	---	---	---
Lead	ppm	**2**	---	---	---
Tin	ppm	**0**	---	---	---
Aluminum	ppm	**1**	---	---	---
Chromium	ppm	**<1**	---	---	---
Molybdenum	ppm	**39**	---	---	---
Nickel	ppm	**0**	---	---	---
Titanium	ppm	**0**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	**0**	---	---	---
Vanadium	ppm	**0**	---	---	---

ADDITIVES

Calcium	ppm	**868**	---	---	---
Magnesium	ppm	**3**	---	---	---
Zinc	ppm	**633**	---	---	---
Phosphorus	ppm	**590**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**0**	---	---	---

Diagnosis

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. Free water present. The oil is no longer serviceable due to the presence of contaminants.

Depot: INLLLO
Unique No: 5723372
Signed: Kevin Marson
Report Date: 09 Feb 2024

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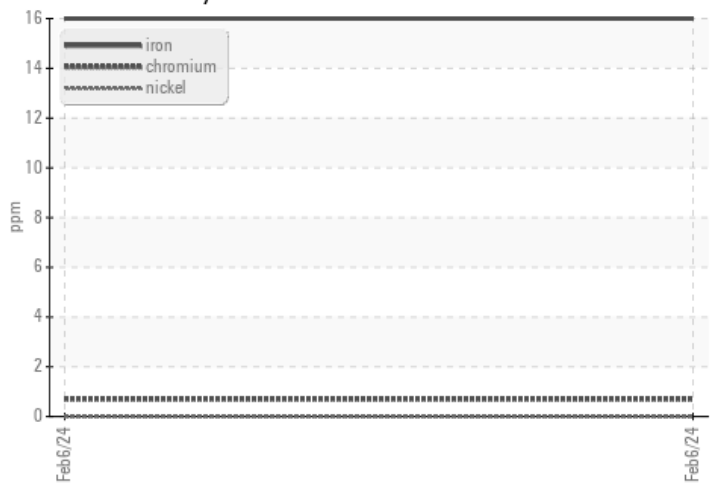
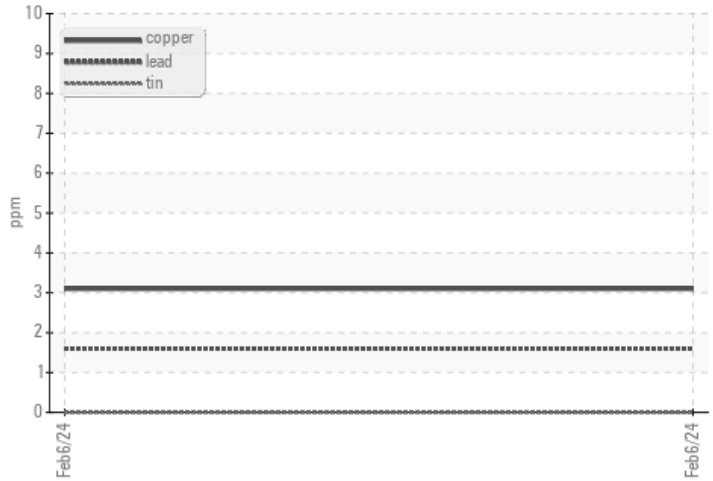
GRAPHS

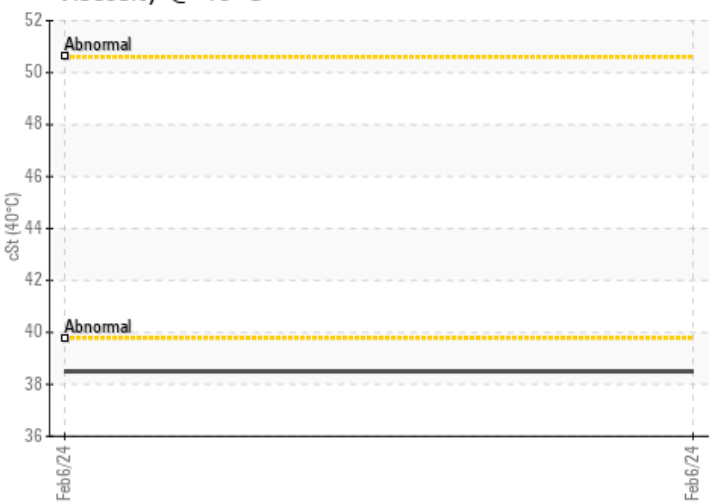
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count