LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR LH60M 152978 - Hydraulic System

Sample No: LH0224300

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL

LIEBHERR CANADA LTD.
1015 SUTTON DRIVE
BURLINGTON, ON
CA L7L 5Z8
Contact: Steve Lehto
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T: (905)319-9222
F: (905)319-6617

SAMPLE INFORMATION

Sample Number		**LH0224300**	---	---	---
Sample Date		**15 Feb 2024**	---	---	---
Machine Hours		**556**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**Not Changd**	---	---	---
Sample Status		**NORMAL**	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	**45.5**	---	---	---

CONTAMINATION

Water	%	**NEG**	---	---	---
Particles >4µm		**5114**	---	---	---
Particles >6µm		**719**	---	---	---
Particles >14µm		**29**	---	---	---
ISO 4406:1999 (c)		**20/17/12**	---	---	---
Silicon	ppm	**2**	---	---	---
Sodium	ppm	**1**	---	---	---
Potassium	ppm	**2**	---	---	---

WEAR METALS

Iron	ppm	**13**	---	---	---
Copper	ppm	**1**	---	---	---
Lead	ppm	**7**	---	---	---
Tin	ppm	**0**	---	---	---
Aluminum	ppm	**1**	---	---	---
Chromium	ppm	**<1**	---	---	---
Molybdenum	ppm	**0**	---	---	---
Nickel	ppm	**0**	---	---	---
Titanium	ppm	**0**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	**0**	---	---	---
Vanadium	ppm	**0**	---	---	---

ADDITIVES

Calcium	ppm	**1203**	---	---	---
Magnesium	ppm	**7**	---	---	---
Zinc	ppm	**731**	---	---	---
Phosphorus	ppm	**665**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**0**	---	---	---

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.Metal levels are typical for a new component breaking in. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Depot: LIEMIS
Unique No: 5736669
Signed: Kevin Marson
Report Date: 05 Mar 2024

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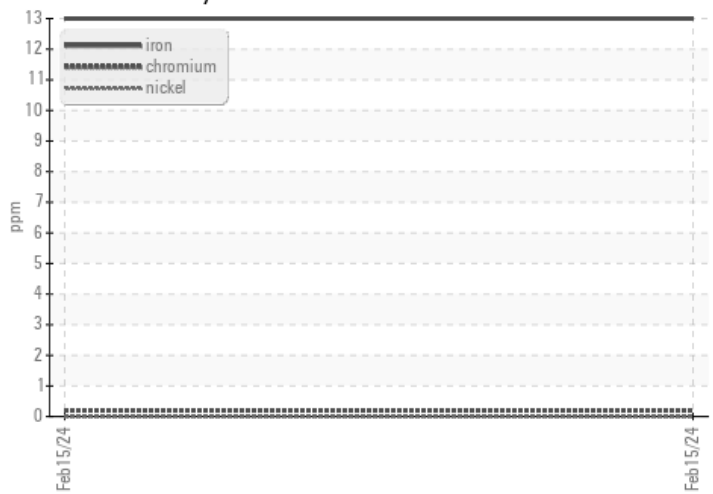
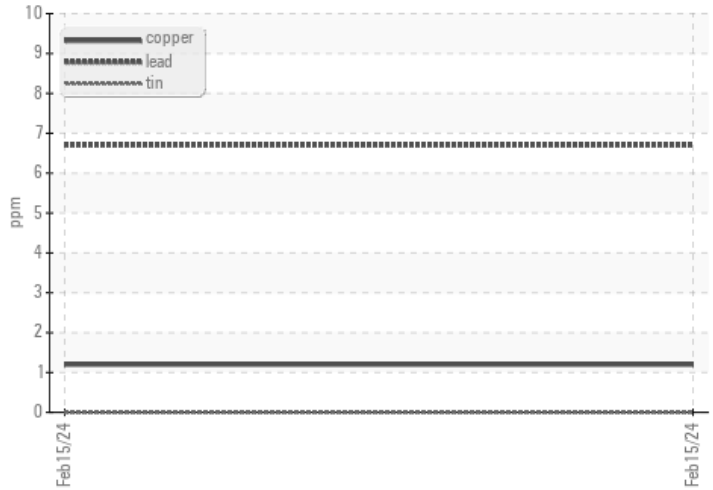
GRAPHS

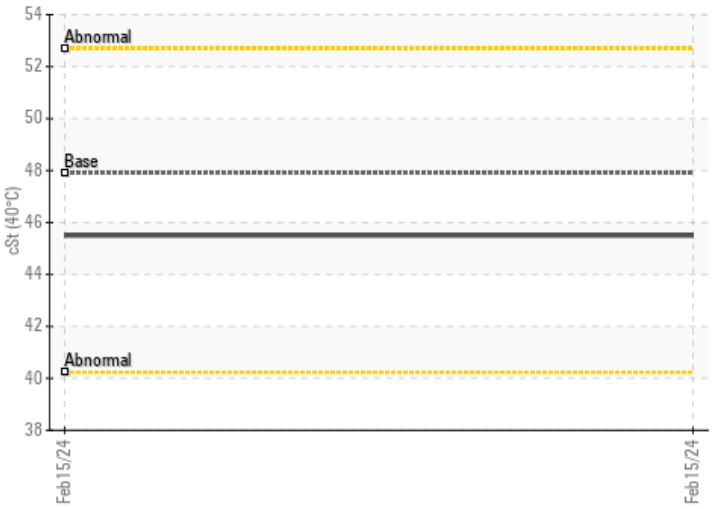
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count