LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR L580 038365-1170 - Hydraulic System

Sample No: LH

Oil Type: AW HYDRAULIC OIL ISO 46

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

SAMPLE INFORMATION

Sample Number		**LH**	LH0137236	---	---
Sample Date		**16 Oct 2023**	30 Jan 2019	---	---
Machine Hours		**11141**	10625	---	---
Oil Hours		**0**	0	---	---
Oil Changed		**Not Changd**	Not Changd	---	---
Sample Status		**ABNORMAL**	ABNORMAL	---	---

OIL CONDITION

Visc @ 40°C	cSt	**40.1**	38.4	---	---

CONTAMINATION

Particles >4µm		**106427**	51547	---	---
Particles >6µm		**11458**	1086	---	---
Particles >14µm		**179**	34	---	---
ISO 4406:1999 (c)		**24/21/15**	23/17/12	---	---
Silicon	ppm	**2**	2	---	---
Sodium	ppm	**4**	5	---	---
Potassium	ppm	**<1**	<1	---	---

WEAR METALS

PQ		**0**	---	---	---
Iron	ppm	**20**	14	---	---
Copper	ppm	**3**	1	---	---
Lead	ppm	**1**	<1	---	---
Tin	ppm	**0**	0	---	---
Aluminum	ppm	**<1**	<1	---	---
Chromium	ppm	**2**	2	---	---
Molybdenum	ppm	**<1**	<1	---	---
Nickel	ppm	**<1**	0	---	---
Titanium	ppm	**0**	0	---	---
Silver	ppm	**<1**	0	---	---
Manganese	ppm	**0**	<1	---	---
Vanadium	ppm	**0**	0	---	---

ADDITIVES

Calcium	ppm	**145**	129	---	---
Magnesium	ppm	**21**	1	---	---
Zinc	ppm	**488**	520	---	---
Phosphorus	ppm	**391**	385	---	---
Barium	ppm	**<1**	0	---	---
Boron	ppm	**3**	<1	---	---

Diagnosis

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 46. Please confirm.Iron ppm levels are marginal. All other component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot: LIEMIS
Unique No: 5658734
Signed: Kevin Marson
Report Date: 18 Oct 2023

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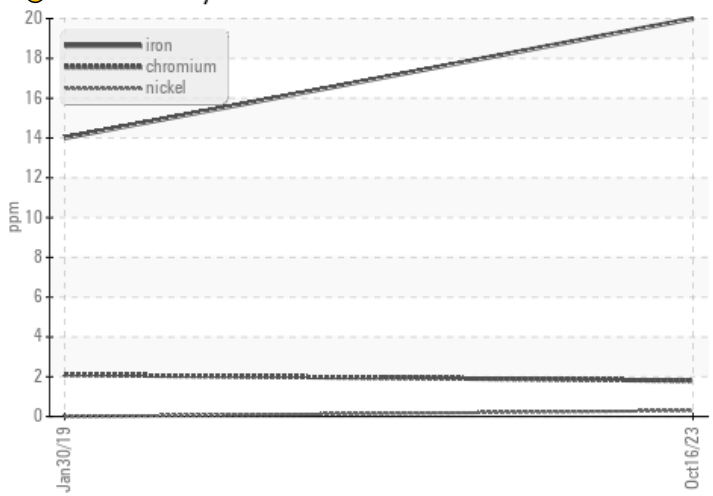
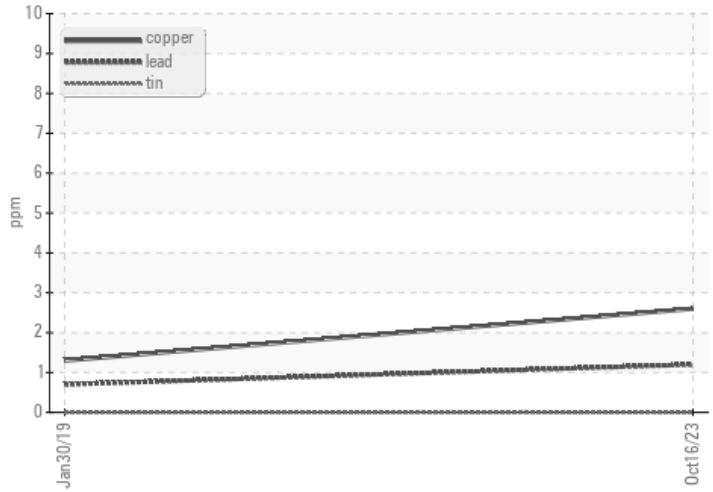
GRAPHS

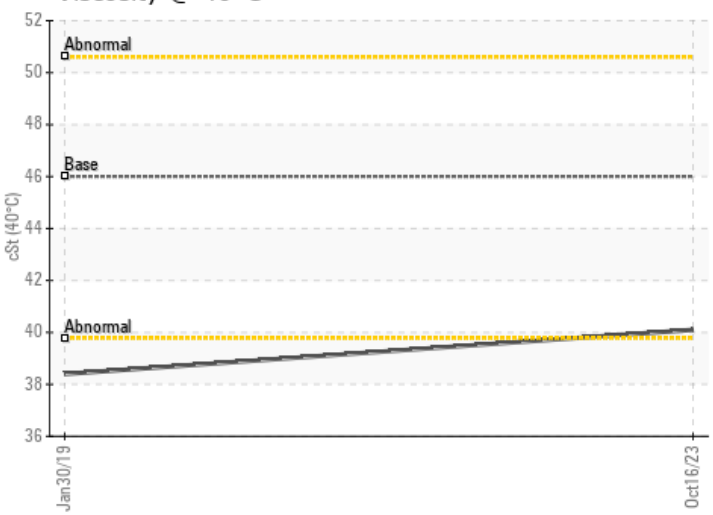
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count