LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR A910 143059-1837 - Hydraulic System

Sample No: LH0238949

Oil Type: AW HYDRAULIC OIL ISO 46

FORACTION INC.
270 RUE BRUNET
MONT ST-HILAIRE, QC
CA J3H 0M6
Contact: Service Manager

T:
F:

SAMPLE INFORMATION

Sample Number		**LH0238949**	---	---	---
Sample Date		**01 Mar 2024**	---	---	---
Machine Hours		**446**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**Not Changd**	---	---	---
Sample Status		**ABNORMAL**	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	**47.4**	---	---	---

CONTAMINATION

Water	%	**0.272**	---	---	---
Particles >4µm		**9356**	---	---	---
Particles >6µm		**710**	---	---	---
Particles >14µm		**30**	---	---	---
ISO 4406:1999 (c)		**20/17/12**	---	---	---
Silicon	ppm	**3**	---	---	---
Sodium	ppm	**2**	---	---	---
Potassium	ppm	**3**	---	---	---

WEAR METALS

Iron	ppm	**8**	---	---	---
Copper	ppm	**5**	---	---	---
Lead	ppm	**2**	---	---	---
Tin	ppm	**0**	---	---	---
Aluminum	ppm	**1**	---	---	---
Chromium	ppm	**1**	---	---	---
Molybdenum	ppm	**3**	---	---	---
Nickel	ppm	**<1**	---	---	---
Titanium	ppm	**0**	---	---	---
Silver	ppm	**1**	---	---	---
Manganese	ppm	**0**	---	---	---
Vanadium	ppm	**0**	---	---	---

ADDITIVES

Calcium	ppm	**1400**	---	---	---
Magnesium	ppm	**56**	---	---	---
Zinc	ppm	**794**	---	---	---
Phosphorus	ppm	**662**	---	---	---
Barium	ppm	**<1**	---	---	---
Boron	ppm	**2**	---	---	---

Diagnosis

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a moderate concentration of water present in the oil. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The oil is no longer serviceable due to the presence of contaminants.

Depot: FOR270MON
Unique No: 5737062
Signed: Kevin Marson
Report Date: 07 Mar 2024

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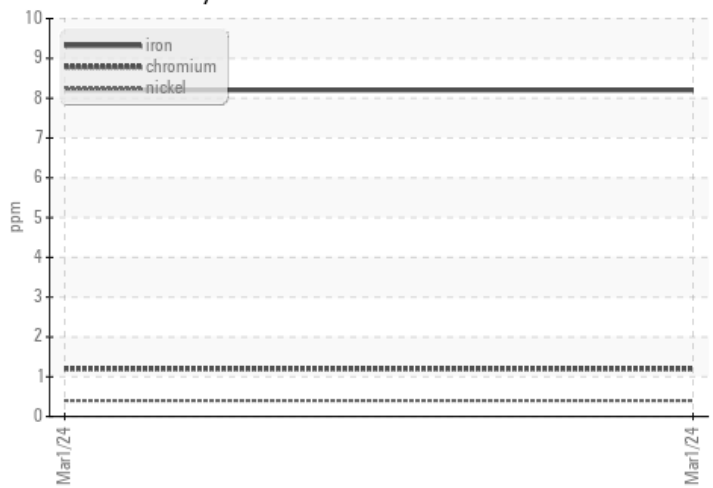
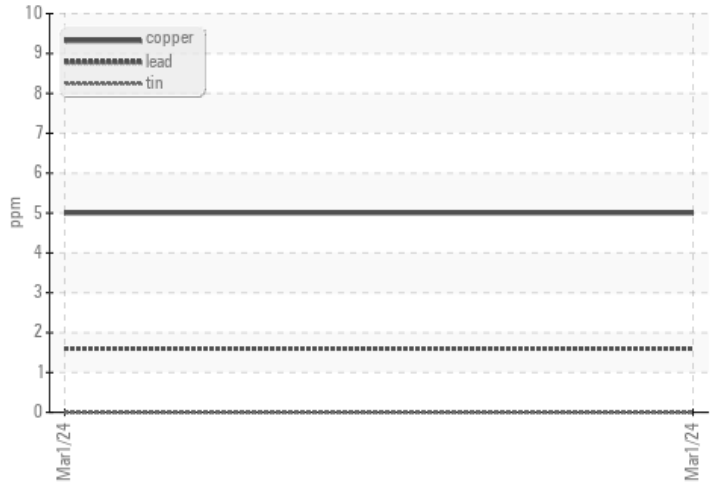
GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

Particle Count