

LIEBHERR

CONSTRUCTION EQUIPMENT



[IRON SHORING] 100-028 - Hydraulic System

Sample No: LH0286937

Oil Type: AW HYDRAULIC OIL ISO 32



Sample Information

Sample Number	LH0286937	LH0216074	---	---
Sample Date	03 Apr 2024	20 Nov 2021	---	---
Machine Hours	0	558	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Not Chngd	---	---
Sample Status	ABNORMAL	NORMAL	---	---

RONI/IRON SHORE EXCAVATING LTD.
 100 MACINTOSH BLVD
 VAUGHAN, ON
 CA L4K 4P3
 Contact: Nathan Fernandes
 nfernandes@roni.ca
 T:
 F:



Oil Condition

Visc @ 40°C	cSt	34.6	34.6	---	---
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Contamination

Water	%	NEG	NEG	---	---
Particles >4µm		49161	2309	---	---
Particles >6µm		15729	341	---	---
Particles >14µm		1311	7	---	---
ISO 4406:1999 (c)		23/21/18	18/16/10	---	---
Silicon	ppm	1	2	---	---
Sodium	ppm	<1	0	---	---
Potassium	ppm	<1	<1	---	---

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



Wear Metals

Iron	ppm	2	<1	---	---
Copper	ppm	6	4	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	0	0	---	---
Chromium	ppm	0	0	---	---
Molybdenum	ppm	0	0	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	0	0	---	---
Vanadium	ppm	0	0	---	---



Additives

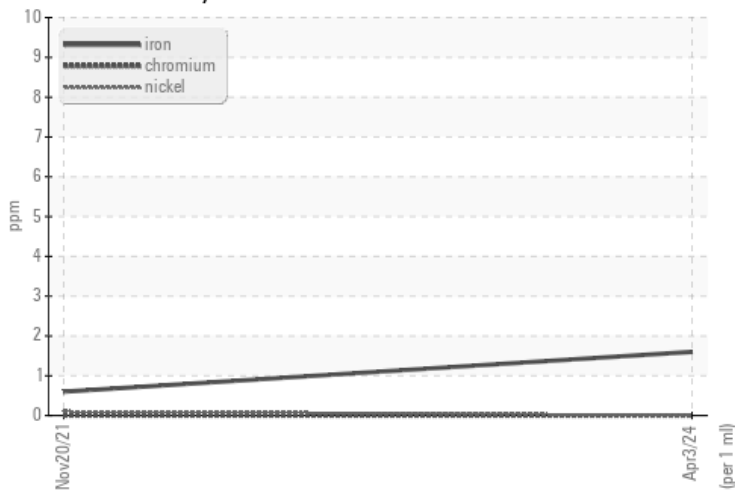
Calcium	ppm	73	72	---	---
Magnesium	ppm	5	4	---	---
Zinc	ppm	334	343	---	---
Phosphorus	ppm	266	292	---	---
Barium	ppm	0	0	---	---
Boron	ppm	<1	<1	---	---

Depot: RONVAU
 Unique No: 5759791
 Signed: Wes Davis
 Report Date: 05 Apr 2024

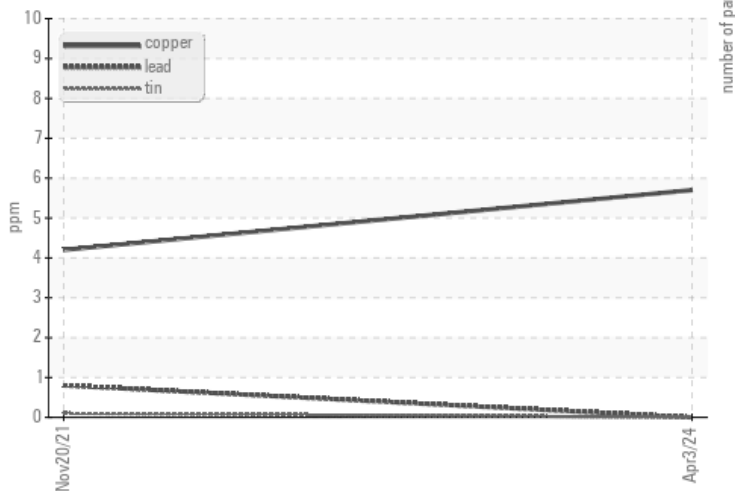


Graphs

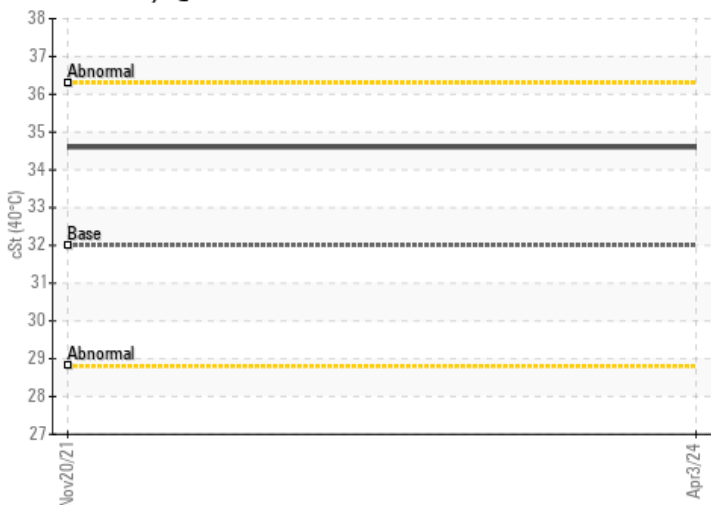
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

