

LIEBHERR

CONSTRUCTION EQUIPMENT



[RONI] 360 - Hydraulic System

Sample No: LH0256886

Oil Type: PETRO CANADA 10W



SAMPLE INFORMATION

Sample Number	LH0256886	LH	LH0232551	---
Sample Date	19 Jun 2023	04 Jun 2023	09 Mar 2023	---
Machine Hours	8867	8864	1000	---
Oil Hours	0	0	0	---
Oil Changed	Changed	N/A	Not Changd	---
Sample Status	SEVERE	SEVERE	SEVERE	---

RONI/IRON SHORE EXCAVATING LTD.
 100 MACINTOSH BLVD
 VAUGHAN, ON
 CA L4K 4P3
 Contact: Service Team
 service.team@roni.ca
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	42.0	42.1	42.2	---
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CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		46967	51140	63466	---
Particles >6µm		721	4554	3143	---
Particles >14µm		11	99	24	---
ISO 4406:1999 (c)		23/17/11	23/19/14	23/19/12	---
Silicon	ppm	6	7	7	---
Sodium	ppm	1	<1	2	---
Potassium	ppm	<1	1	<1	---



WEAR METALS

Iron	ppm	15	15	15	---
Copper	ppm	17	17	17	---
Lead	ppm	2	2	2	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	3	3	3	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	17	18	18	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	2243	2361	2396	---
Magnesium	ppm	12	12	11	---
Zinc	ppm	768	776	755	---
Phosphorus	ppm	703	716	697	---
Barium	ppm	0	0	0	---
Boron	ppm	3	3	3	---

Diagnosis

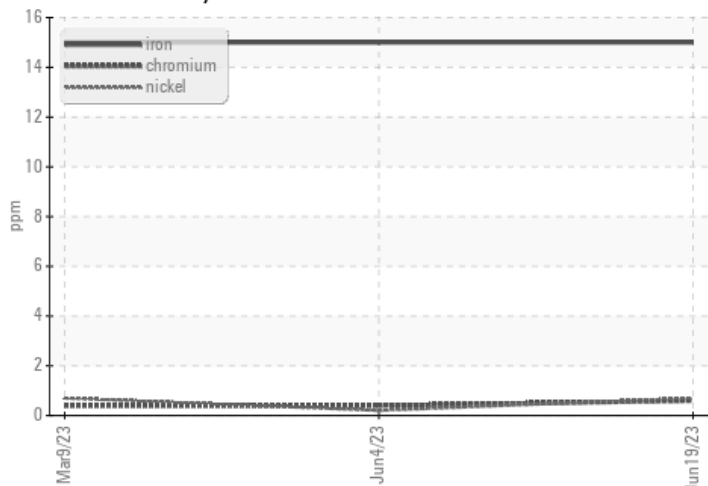
Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high 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: RONVAU
 Unique No: 5594667
 Signed: Kevin Marson
 Report Date: 22 Jun 2023

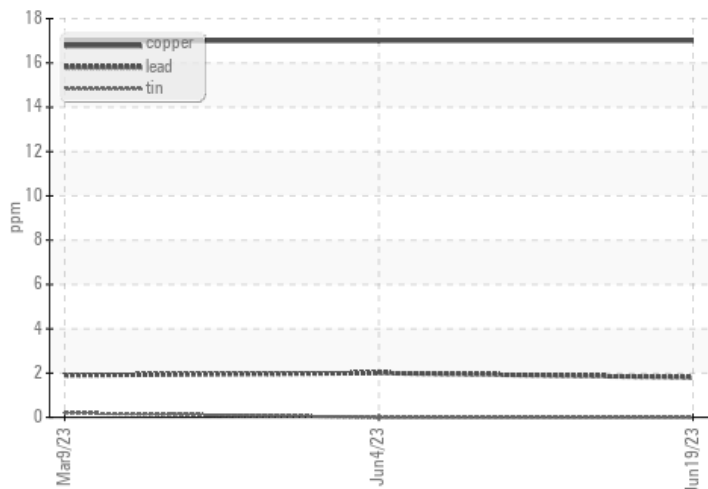


GRAPHS

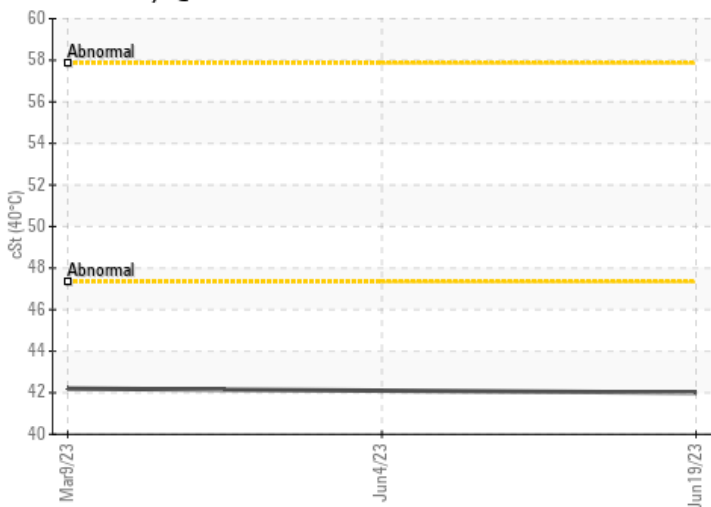
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

