

LIEBHERR

CONSTRUCTION EQUIPMENT



808366 - Hydraulic System

Sample No: LH0274321

Oil Type: JOHN DEERE HYDRAU



SAMPLE INFORMATION

Sample Number	LH0274321	---	---	---
Sample Date	26 Oct 2023	---	---	---
Machine Hours	10456	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---

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 2555 Sheffield Road
 Ottawa, ON
 CA K1B 3V6
 Contact: Marc Giguere
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 T: (438)334-4682
 F: (613)745-0692



OIL CONDITION

Visc @ 40°C	cSt	● 44.2	---	---	---
Visc @ 100°C	cSt	● 6.8	---	---	---
Viscosity Index (VI)	Scale	● 108	---	---	---

Diagnosis

We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. Viscosity of sample indicates oil is within ISO 46 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



CONTAMINATION

Particles >4µm		● 30784	---	---	---
Particles >6µm		● 2899	---	---	---
Particles >14µm		● 81	---	---	---
ISO 4406:1999 (c)		22/19/14	---	---	---
Silicon	ppm	● 1	---	---	---
Sodium	ppm	● <1	---	---	---
Potassium	ppm	● 0	---	---	---



WEAR METALS

Iron	ppm	● 9	---	---	---
Copper	ppm	● 4	---	---	---
Lead	ppm	● <1	---	---	---
Tin	ppm	● 0	---	---	---
Aluminum	ppm	● <1	---	---	---
Chromium	ppm	● 4	---	---	---
Molybdenum	ppm	● 2	---	---	---
Nickel	ppm	● <1	---	---	---
Titanium	ppm	● 0	---	---	---
Silver	ppm	● <1	---	---	---
Manganese	ppm	● 0	---	---	---
Vanadium	ppm	● 0	---	---	---



ADDITIVES

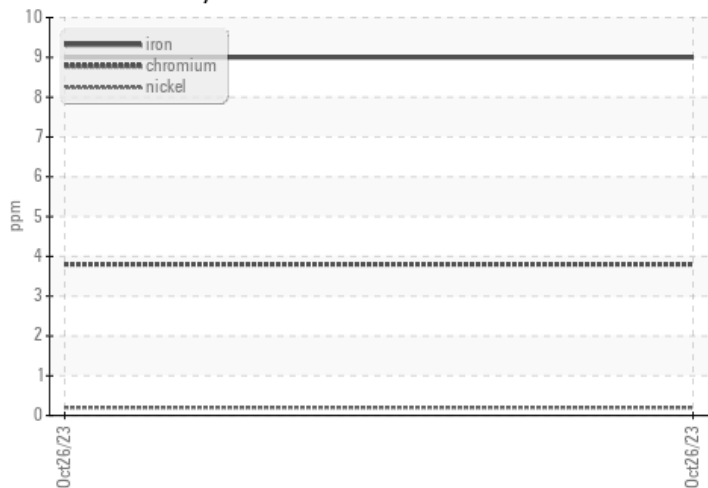
Calcium	ppm	● 84	---	---	---
Magnesium	ppm	● 10	---	---	---
Zinc	ppm	● 374	---	---	---
Phosphorus	ppm	● 365	---	---	---
Barium	ppm	● <1	---	---	---
Boron	ppm	● 1	---	---	---

Depot: BAKOTT
Unique No: 5670417
Signed: Kevin Marson
Report Date: 02 Nov 2023

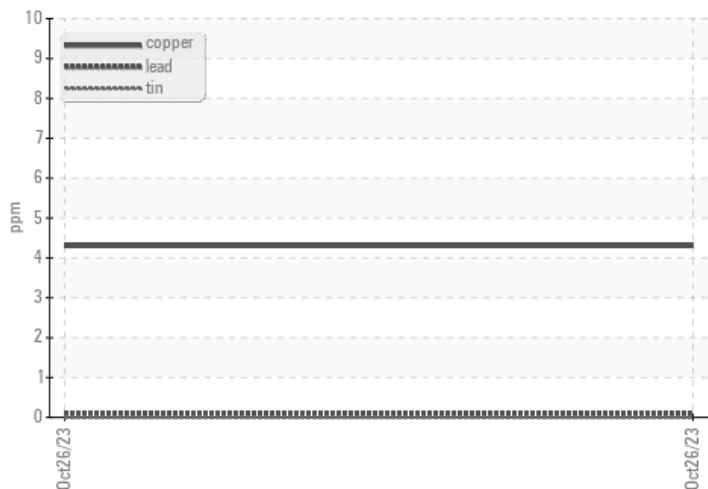


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

