



CONSTRUCTION EQUIPMENT

633489 BERGMANN C815S 6496 - HYDRAULIC SYSTEM



Sample No: VCP432442
Oil Type: JCB VG 46
Job No: 633489



SAMPLE INFORMATION

Sample Number	VCP432442	---	---	---
Sample Date	10 Nov 2023	---	---	---
Machine Hours	566	---	---	---
Oil Hours	566	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

RIPA AND ASSOCIATES

10149 FISHER AVENUE
TAMPA, FL
US 33619
Contact: PM Services
PMServices@ripaconstruction.com
T:
F:



OIL CONDITION

Visc @ 40°C	cSt	■ 44.5	---	---	---
Acid Number (AN)	mg KOH/g	■ 0.50	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		● 68219	---	---	---
Particles >6µm		● 19419	---	---	---
Particles >14µm		▲ 1295	---	---	---
ISO 4406:1999 (c)		23/21/17	---	---	---
Silicon	ppm	■ 2	---	---	---
Sodium	ppm	■ 0	---	---	---
Potassium	ppm	■ 2	---	---	---

Diagnosis

We advise that you check all areas where contaminants can enter the system. The oil change at the time of sampling has been noted. 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. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



WEAR METALS

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



ADDITIVES

Calcium	ppm	61	---	---	---
Magnesium	ppm	<1	---	---	---
Zinc	ppm	423	---	---	---
Phosphorus	ppm	273	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	0	---	---	---

Depot: RIPTAM
Unique No: 10765006
Signed: Wes Davis
Report Date: 30 Nov 2023

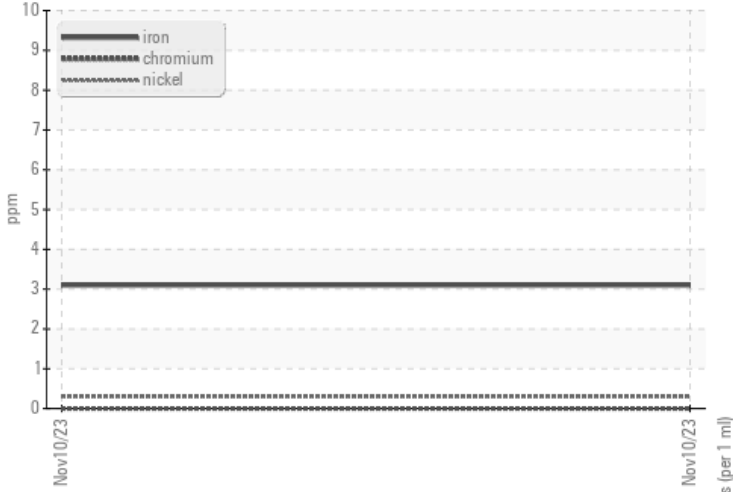


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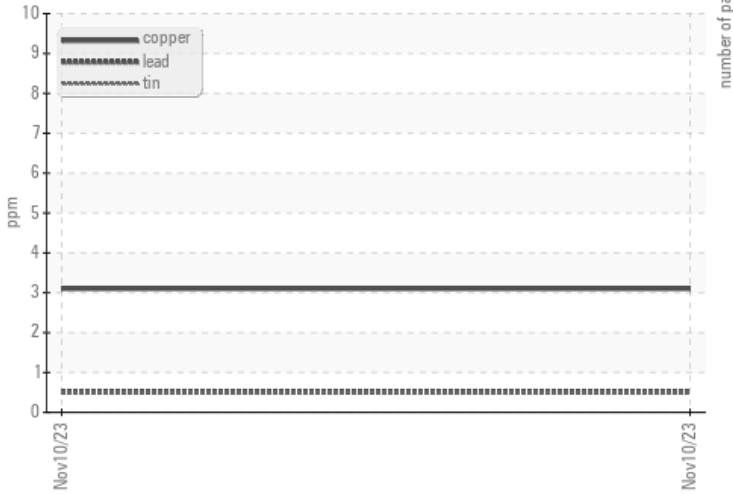


GRAPHS

Ferrous Alloys



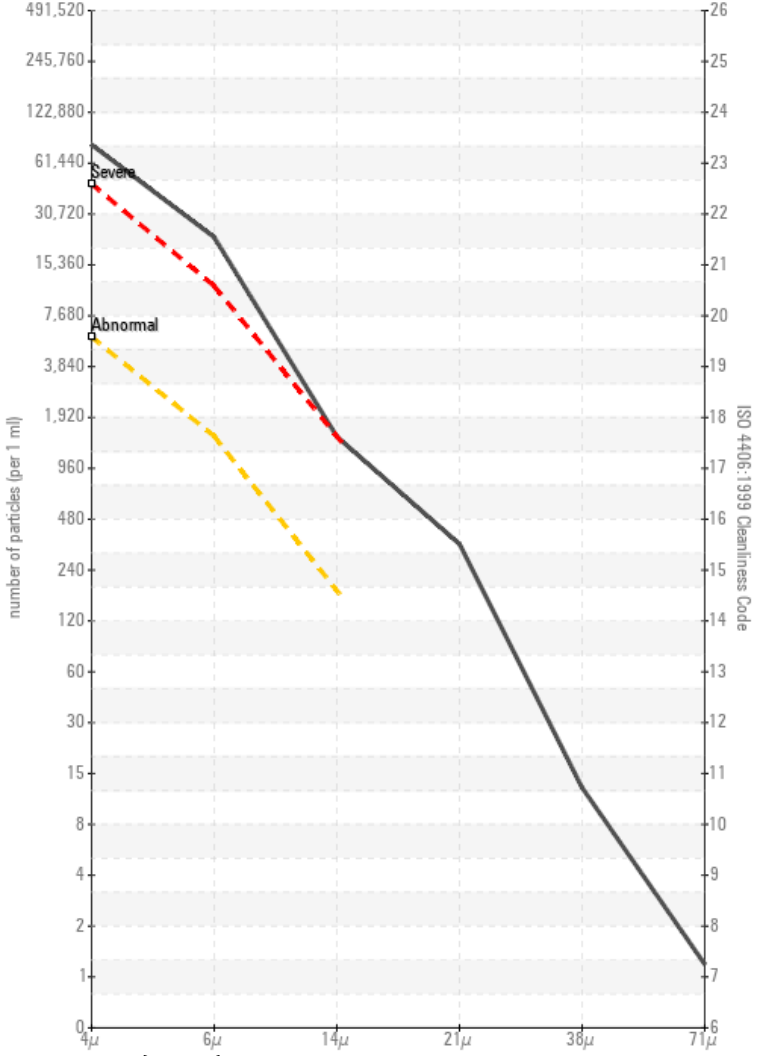
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

