



CONSTRUCTION EQUIPMENT

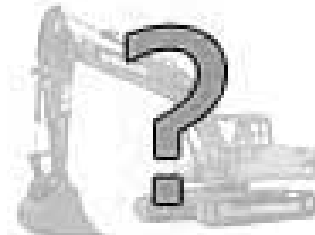
SWO067334 ASTEC FB 100E MANFB 100A0004 - HYDRAULIC SYSTEM



Sample No: VCP431081

Oil Type: NOT GIVEN

Job No: SWO067334



SAMPLE INFORMATION

Sample Number	VCP431081	---	---	---
Sample Date	02 Nov 2023	---	---	---
Machine Hours	24	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---

COWIN EQUIPMENT COMPANY

2238 PINSON VALLEY PARKWAY
 BIRMINGHAM, AL
 US 35217
 Contact: BRANTLY CLAY
 bclay@cowin.com
 T:
 F: (205)856-2106

OIL CONDITION

Visc @ 40°C	cSt	█ 45.5	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.51	---	---	---

CONTAMINATION

Particles >4µm	█ 57837	---	---	---	
Particles >6µm	█ 15893	---	---	---	
Particles >14µm	▲ 658	---	---	---	
ISO 4406:1999 (c)	23/21/17	---	---	---	
Silicon	ppm	█ 1	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 1	---	---	---

Diagnosis

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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. Please specify the brand, type, and viscosity of the oil on your next sample. 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	█ 0	---	---	---
Copper	ppm	█ <1	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 0	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	5	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	27	---	---	---
Magnesium	ppm	56	---	---	---
Zinc	ppm	332	---	---	---
Phosphorus	ppm	283	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	0	---	---	---

Depot: VOLVO8528
Unique No: 10728819
Signed: Wes Davis
Report Date: 08 Nov 2023

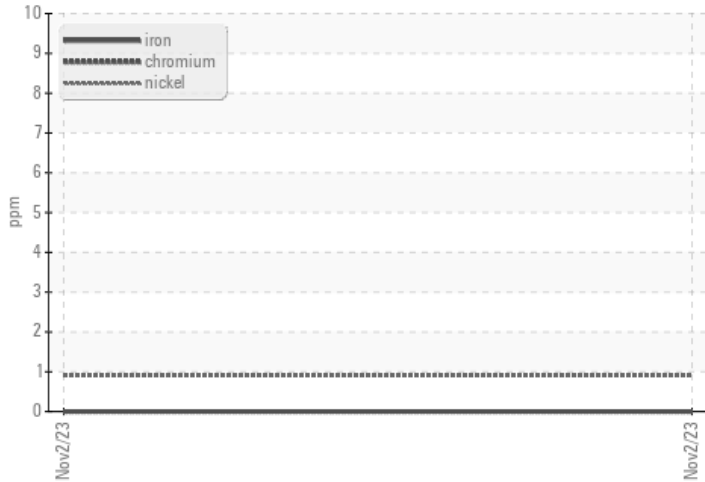


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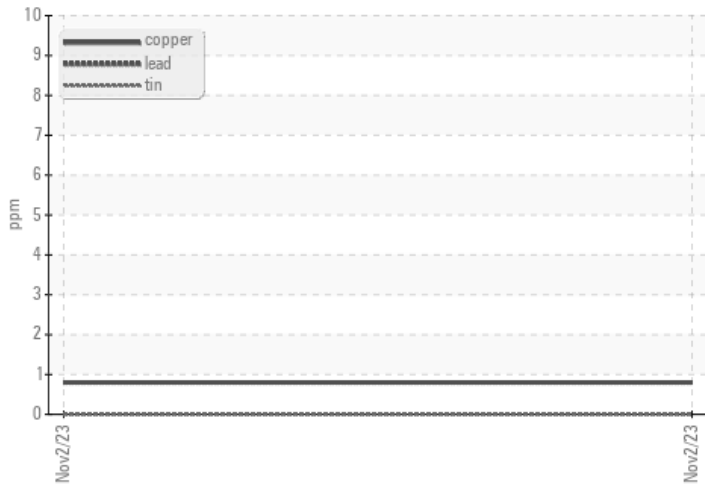


GRAPHS

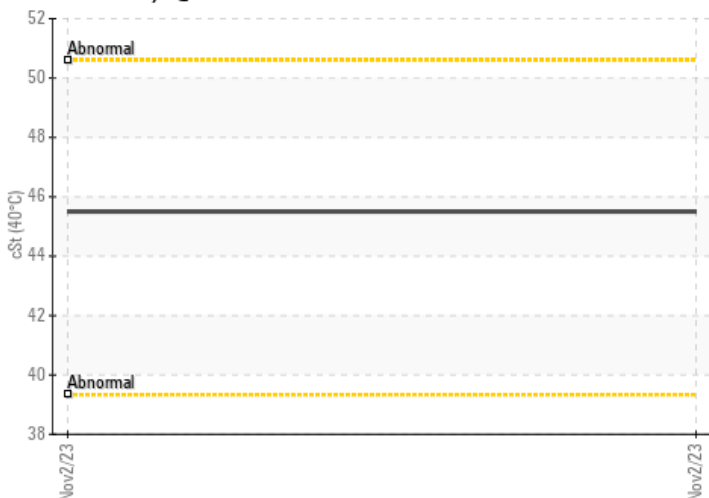
Ferrous Alloys



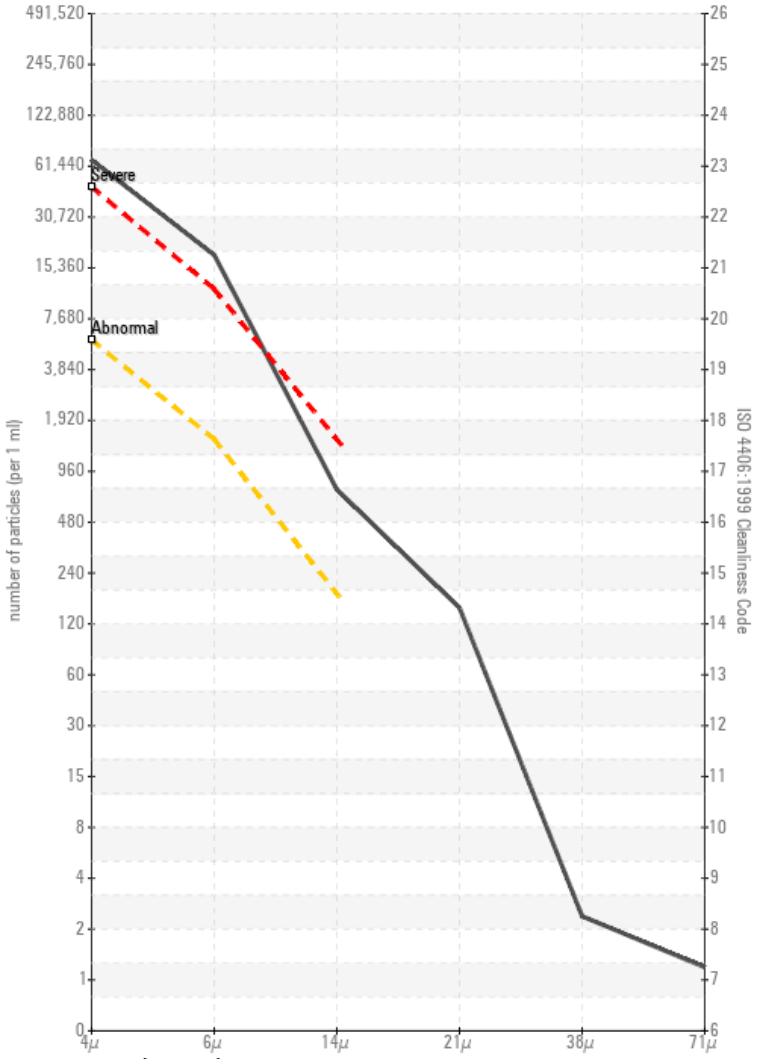
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

