



CONSTRUCTION EQUIPMENT

SPM620698 SENNEBOGEN 835E 835.0.2441 - HYDRAULIC SYSTEM



Sample No: VCP425245
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM620698



SAMPLE INFORMATION

Sample Number	VCP425245	VCP388592	---	---
Sample Date	12 Oct 2023	15 Dec 2022	---	---
Machine Hours	6304	8600	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Changed	Changed	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

SIMS METAL MANAGEMENT

2500 S. PAULINA
 CHICAGO, IL
 US 60608
 Contact: RYAN WISE
 ryan.wise@simsmm.com
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	█ 43.9	█ 44.2	---	---
Acid Number (AN)	mg KOH/g	█ 0.44	█ 0.53	---	---



CONTAMINATION

Particles >4µm		▲ 15935	▲ 16168	---	---
Particles >6µm		▲ 3190	▲ 3391	---	---
Particles >14µm		▲ 329	█ 117	---	---
ISO 4406:1999 (c)		21/19/16	21/19/14	---	---
Silicon	ppm	█ 0	█ <1	---	---
Sodium	ppm	█ 0	█ <1	---	---
Potassium	ppm	█ 0	█ 0	---	---

Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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 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	█ 2	█ 9	---	---
Copper	ppm	█ <1	█ 1	---	---
Lead	ppm	█ 0	█ 0	---	---
Tin	ppm	█ 0	█ 0	---	---
Aluminum	ppm	█ 0	█ 0	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 0	█ <1	---	---
Nickel	ppm	█ <1	█ 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	█ 164	█ 158	---	---
Magnesium	ppm	█ 6	█ 4	---	---
Zinc	ppm	█ 491	█ 442	---	---
Phosphorus	ppm	█ 373	█ 362	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 0	█ 0	---	---

Depot: SIMCHIL
Unique No: 10712958
Signed: Wes Davis
Report Date: 27 Oct 2023

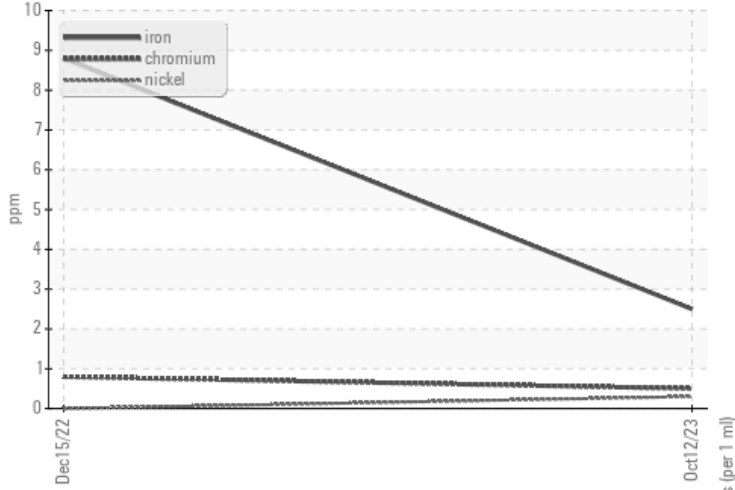


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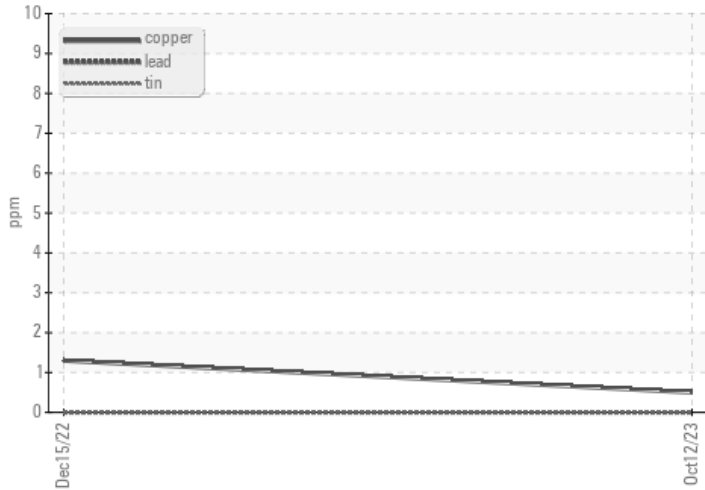


GRAPHS

Ferrous Alloys



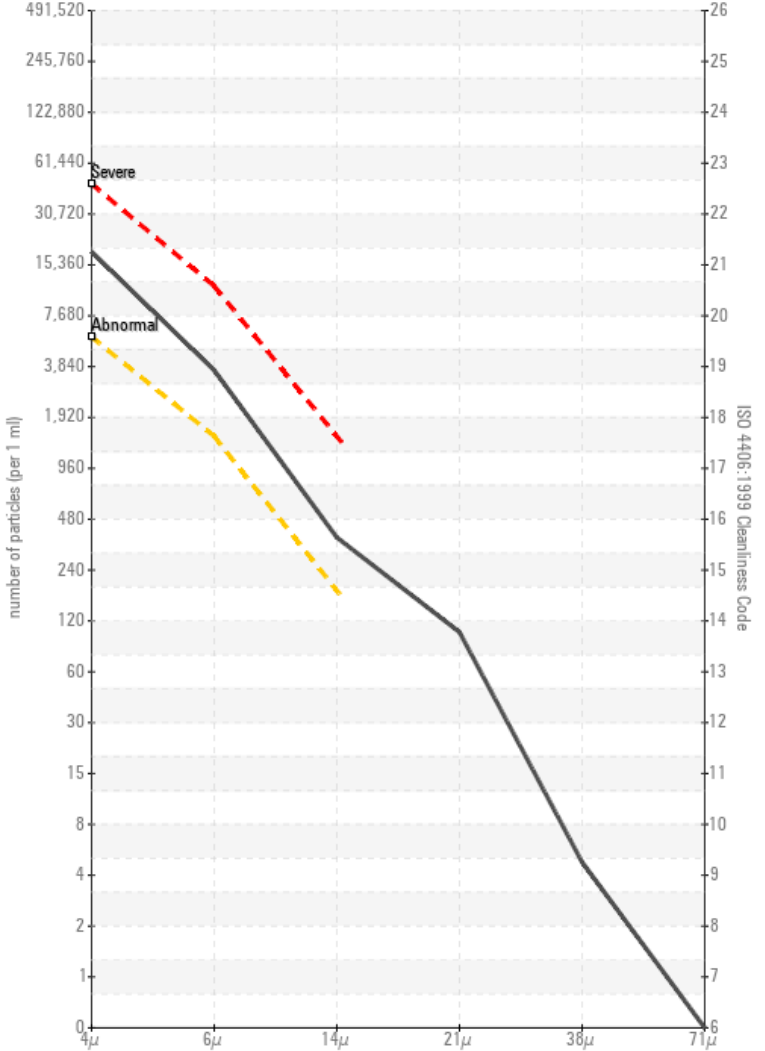
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

