



CONSTRUCTION EQUIPMENT

SPM621371 SENNEBOGEN 835M 835.0.3000 - HYDRAULIC SYSTEM



Sample No: VCP433707
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM621371



SAMPLE INFORMATION

Sample Number	VCP433707	VCP399533	VCP353603	---
Sample Date	26 Oct 2023	21 Mar 2023	06 Jul 2022	---
Machine Hours	4088	2502	545	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Not Changd	Not Changd	---
Sample Status	ATTENTION	ATTENTION	ABNORMAL	---

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 F:



OIL CONDITION

Visc @ 40°C	cSt	▲ 33.4	▲ 33.7	▲ 37.66	---
Acid Number (AN)	mg KOH/g	■ 0.94	■ 0.99	■ 1.17	---



CONTAMINATION

Particles >4µm		■ 3414	■ 1620	■ 1925	---
Particles >6µm		■ 963	■ 264	■ 277	---
Particles >14µm		■ 69	■ 10	■ 19	---
ISO 4406:1999 (c)		19/17/13	18/15/10	18/15/11	---
Silicon	ppm	■ 3	■ 4	■ 2	---
Sodium	ppm	■ 6	■ 2	■ <1	---
Potassium	ppm	■ 0	■ 1	■ 2	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. Viscosity of sample indicates oil is within ISO 32 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.



WEAR METALS

Iron	ppm	■ 10	■ 8	■ 3	---
Copper	ppm	■ 4	■ 3	■ 2	---
Lead	ppm	■ 1	■ <1	■ <1	---
Tin	ppm	■ <1	■ 0	■ 0	---
Aluminum	ppm	■ <1	■ 0	■ 2	---
Chromium	ppm	■ 2	■ 1	■ <1	---
Molybdenum	ppm	■ 0	■ <1	■ <1	---
Nickel	ppm	■ 0	■ 0	■ 0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	■ <1	■ <1	■ 0	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1173	1260	1286	---
Magnesium	ppm	■ 6	■ 6	■ 6	---
Zinc	ppm	■ 643	■ 712	■ 704	---
Phosphorus	ppm	■ 546	■ 604	■ 606	---
Barium	ppm	■ 0	■ 0	■ 2	---
Boron	ppm	■ 0	■ 0	■ <1	---

Depot: BELBOU
Unique No: 10726260
Signed: Don Baldrige
Report Date: 06 Nov 2023

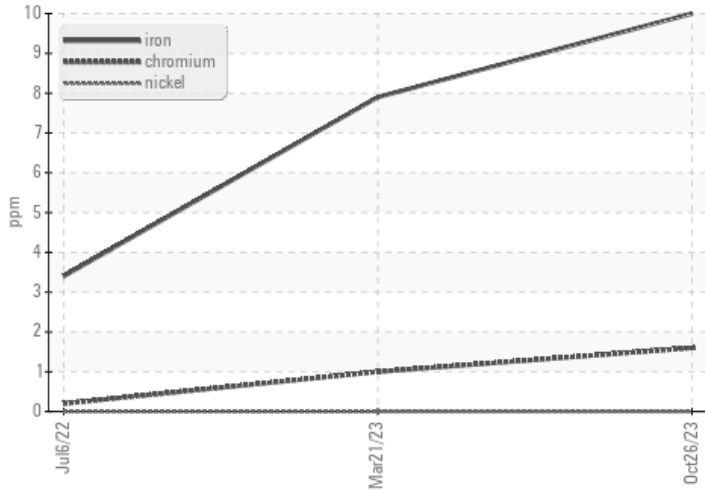


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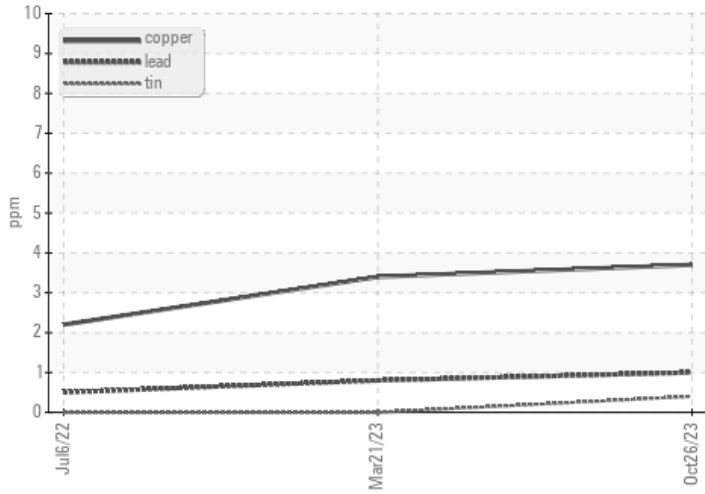


GRAPHS

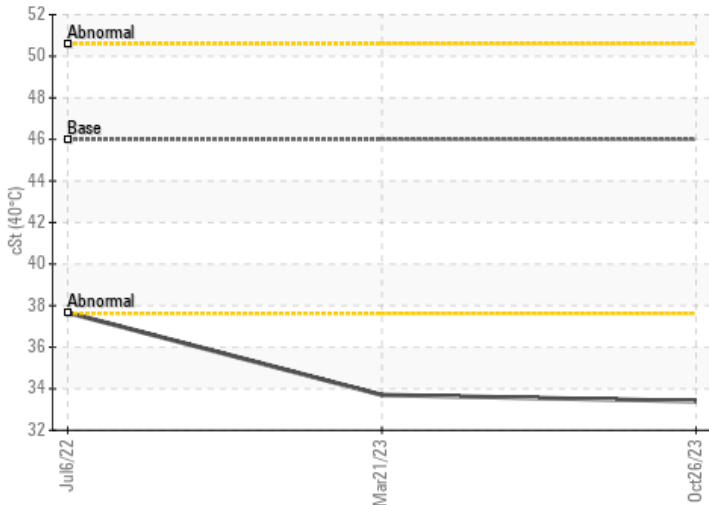
Ferrous Alloys



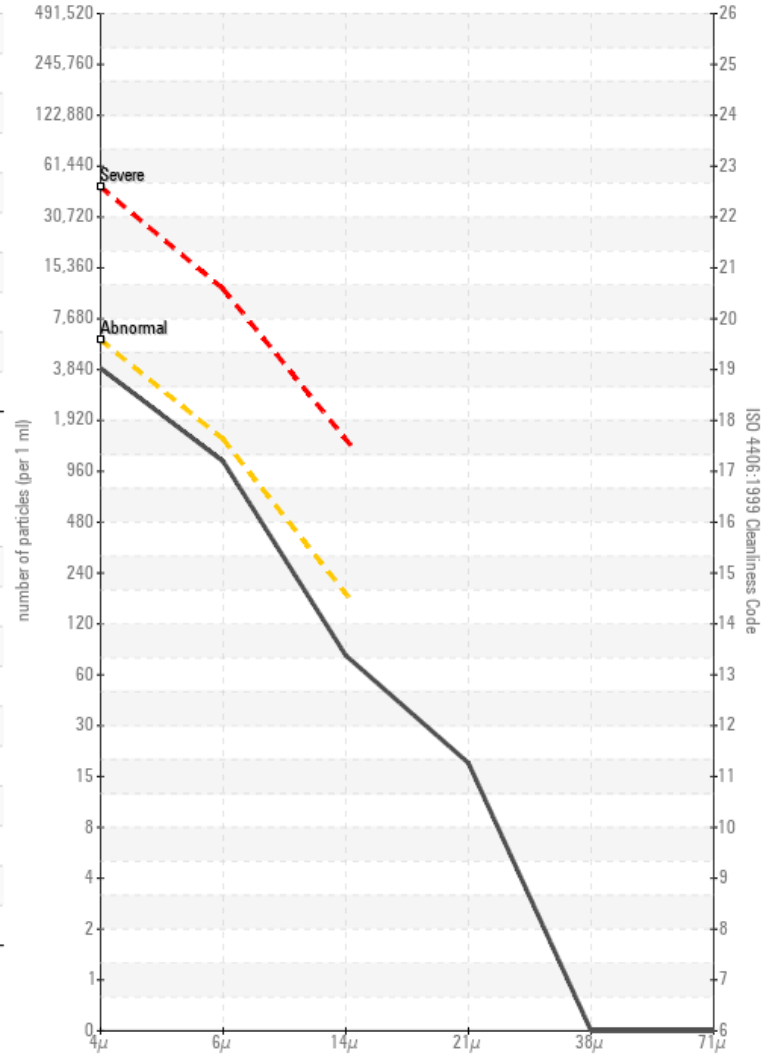
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

