



CONSTRUCTION EQUIPMENT

SPM581201 SENNEBOGEN 835ME 835.0.2266 - HYDRAULIC SYSTEM



Sample No: VCP422973
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM581201



SAMPLE INFORMATION

Sample Number	VCP422973	VCP422523	VCP396419	VCP390873
Sample Date	11 Aug 2023	09 May 2023	20 Feb 2023	08 Dec 2022
Machine Hours	19533	19009	18581	18179
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	ATTENTION	ATTENTION	ATTENTION	ATTENTION

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	43.2	42.9	43.0	43.0
Acid Number (AN)	mg KOH/g	0.45	0.51	0.44	0.50



CONTAMINATION

Particles >4µm		▲ 6524	▲ 6468	▲ 9262	▲ 7866
Particles >6µm		■ 964	■ 906	▲ 2464	■ 1232
Particles >14µm		■ 32	■ 71	■ 108	■ 30
ISO 4406:1999 (c)		20/17/12	20/17/13	20/18/14	20/17/12
Silicon	ppm	■ 3	■ 2	■ 3	■ 2
Sodium	ppm	■ 4	■ <1	■ 4	■ 2
Potassium	ppm	■ 0	■ 0	■ 0	■ 0

Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	■ 10	■ 9	■ 8	■ 7
Copper	ppm	■ 6	■ 4	■ 4	■ 4
Lead	ppm	■ 0	■ 0	■ 0	■ 0
Tin	ppm	■ 0	■ 0	■ 0	■ 0
Aluminum	ppm	■ <1	■ 0	■ <1	■ 0
Chromium	ppm	■ 5	■ 4	■ 3	■ 2
Molybdenum	ppm	■ <1	■ <1	■ <1	■ <1
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ <1	■ 0	■ <1	■ <1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	■ 71	■ 72	■ 68	■ 64
Magnesium	ppm	■ 55	■ 52	■ 48	■ 52
Zinc	ppm	■ 510	■ 509	■ 440	■ 486
Phosphorus	ppm	■ 434	■ 414	■ 396	■ 408
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 0	■ 0	■ 0	■ 0

Depot: SIMCHIL
Unique No: 10616084
Signed: Don Baldrige
Report Date: 23 Aug 2023

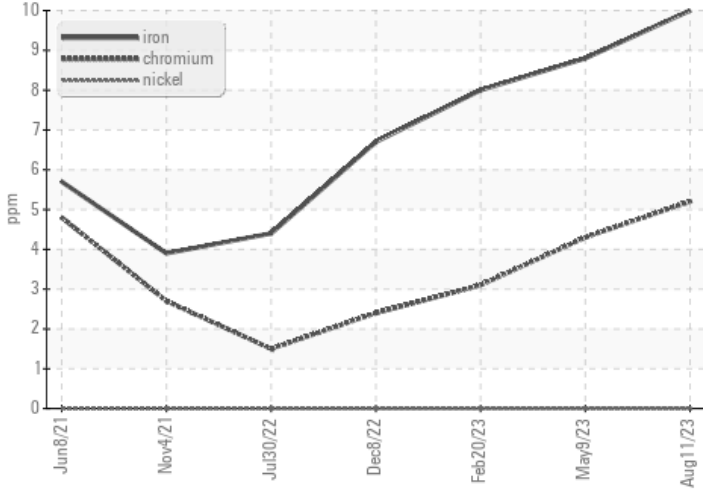


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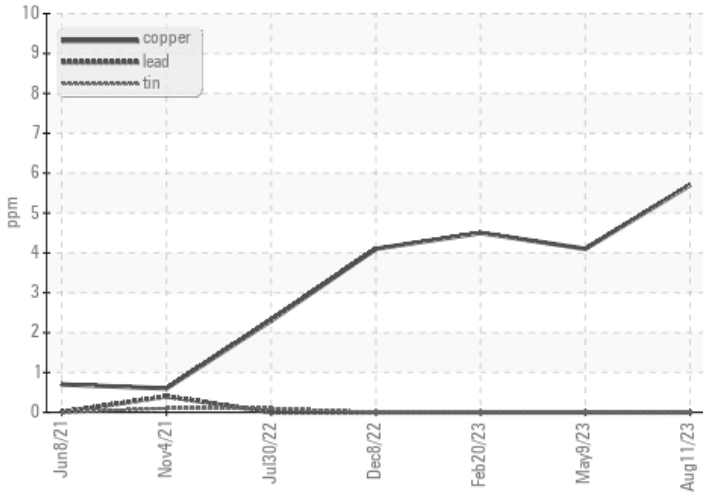


GRAPHS

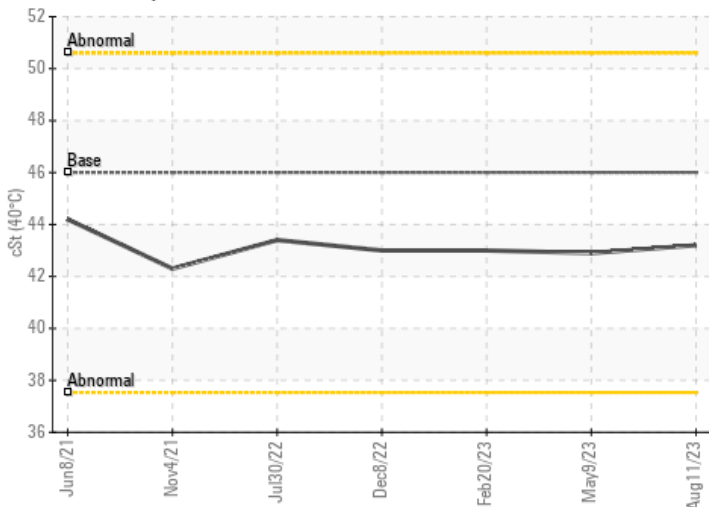
Ferrous Alloys



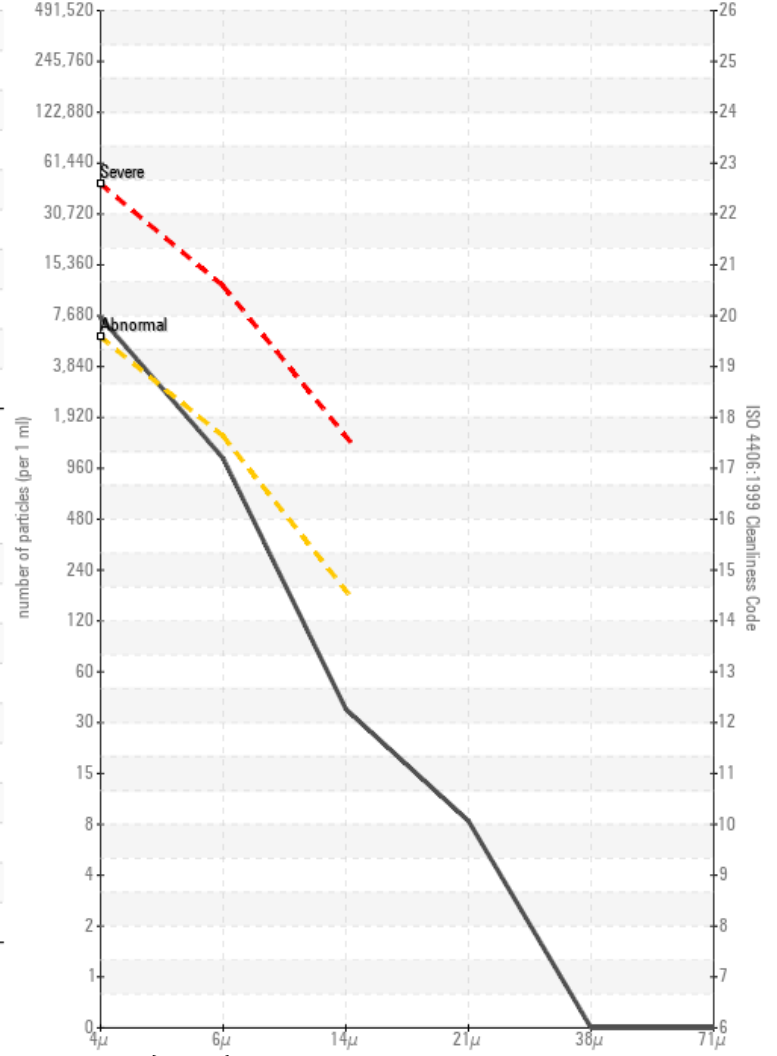
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

