



CONSTRUCTION EQUIPMENT

SPM686819 SENNEBOGEN 835ME 835.0.2350 - HYDRAULIC SYSTEM



Sample No: VCP443682
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM686819



SAMPLE INFORMATION

Sample Number	VCP443682	VCP404531	VCP404358	VCP358309
Sample Date	15 Mar 2024	23 Mar 2023	26 Jan 2023	29 Jun 2022
Machine Hours	15766	13021	12464	11355
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	ABNORMAL	ATTENTION	NORMAL	NORMAL

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	45.4	44.6	42.6	44.9
Acid Number (AN)	mg KOH/g	0.37	0.40	0.66	0.54



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		31859	7969	2871	1111
Particles >6µm		2071	1644	450	175
Particles >14µm		63	53	16	17
ISO 4406:1999 (c)		22/18/13	20/18/13	19/16/11	17/15/11
Silicon	ppm	1	<1	6	<1
Sodium	ppm	3	0	2	0
Potassium	ppm	<1	<1	0	<1

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The chromium level is abnormal. All other component wear rates are normal. There is a high 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 suitable for further service.



WEAR METALS

Iron	ppm	8	4	3	9
Copper	ppm	2	<1	2	2
Lead	ppm	0	0	0	<1
Tin	ppm	<1	0	0	<1
Aluminum	ppm	<1	0	0	<1
Chromium	ppm	16	7	4	6
Molybdenum	ppm	0	<1	1	0
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	3
Manganese	ppm	<1	0	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	114	112	251	120
Magnesium	ppm	26	28	22	31
Zinc	ppm	444	447	548	471
Phosphorus	ppm	357	340	440	364
Barium	ppm	0	0	0	0
Boron	ppm	2	2	0	6

Depot: SIMCHIL
Unique No: 10941179
Signed: Don Baldrige
Report Date: 26 Mar 2024

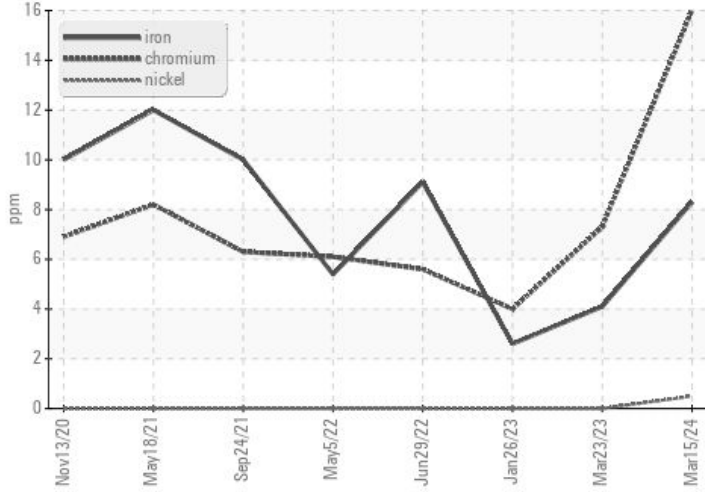


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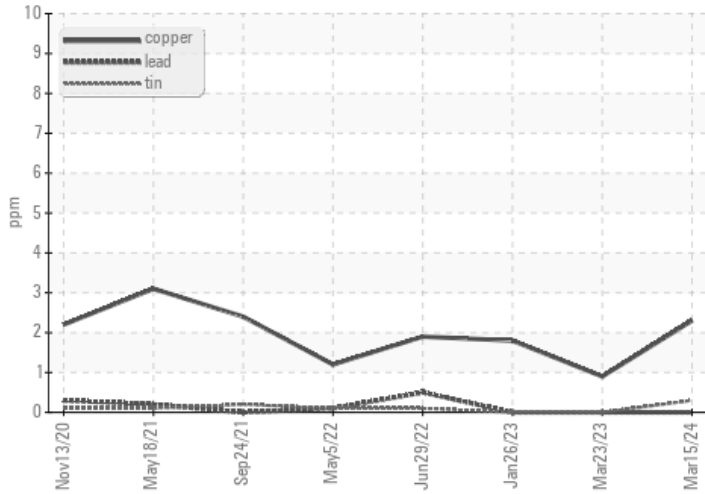


VOLVO GRAPHS

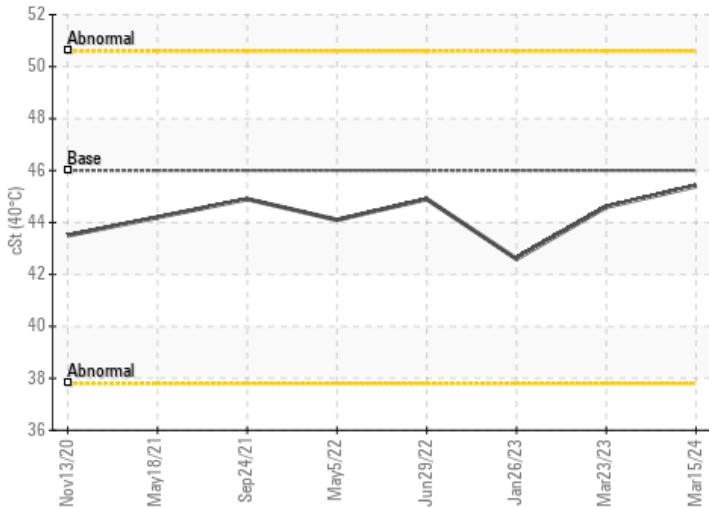
▲ Ferrous Alloys



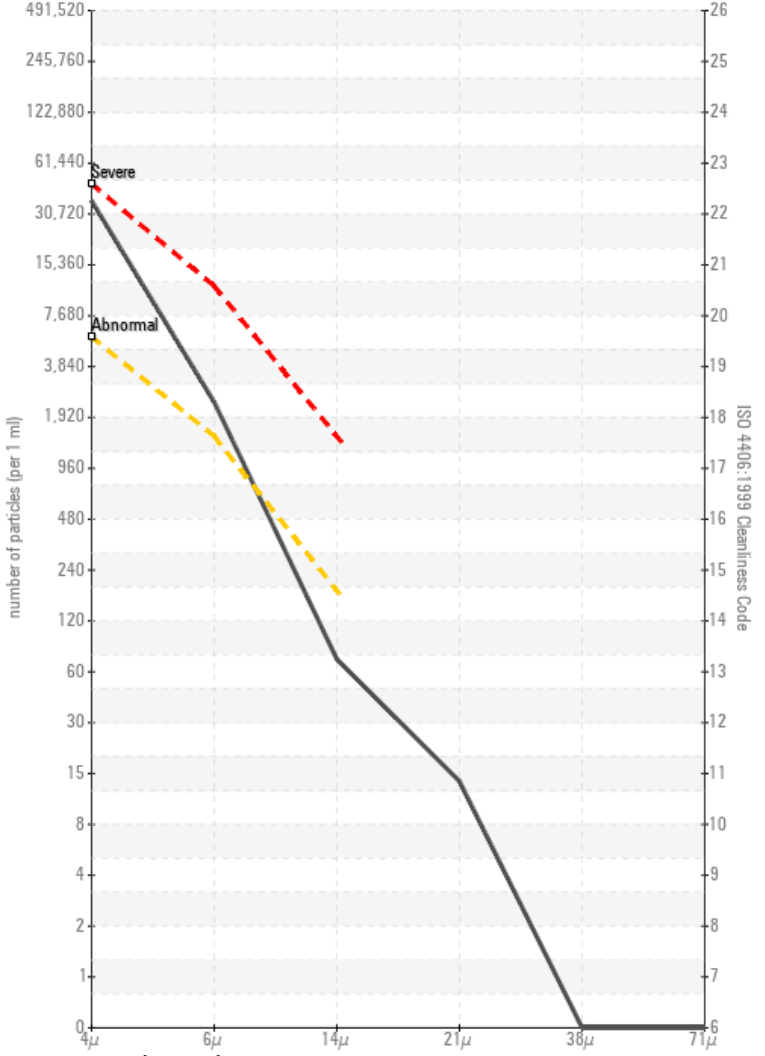
Non-ferrous Metals



Viscosity @ 40°C



▲ Particle Count



Acid Number

