



CONSTRUCTION EQUIPMENT

SPM686828 SENNEBOGEN 835ME 835.0.2739 - HYDRAULIC SYSTEM



Sample No: VCP443663
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM686828



SAMPLE INFORMATION

Sample Number	VCP443663	VCP398557	VCP401749	VCP388575
Sample Date	15 Mar 2024	30 May 2023	03 Mar 2023	07 Dec 2022
Machine Hours	7000	5151	5150	4643
Oil Hours	0	0	0	0
Oil Changed	N/A	Not Changd	Not Changd	Not Changd
Sample Status	SEVERE	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	40.9	39.7	39.7	40.5
Acid Number (AN)	mg KOH/g	0.73	0.61	0.53	0.60



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		▲ 43627	● 5030	■ 975	■ 4141
Particles >6µm		▲ 13580	■ 900	■ 233	■ 670
Particles >14µm		▲ 644	■ 75	■ 25	■ 17
ISO 4406:1999 (c)		23/21/17	20/17/13	17/15/12	19/17/11
Silicon	ppm	<1	<1	1	<1
Sodium	ppm	3	0	1	2
Potassium	ppm	<1	1	0	0

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. 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	2	5	4	3
Copper	ppm	1	2	1	1
Lead	ppm	0	<1	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	<1	0	<1	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	408	290	229	243
Magnesium	ppm	10	15	7	6
Zinc	ppm	483	573	518	515
Phosphorus	ppm	385	434	407	419
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: SIMCHIL
Unique No: 10941171
Signed: Wes Davis
Report Date: 26 Mar 2024

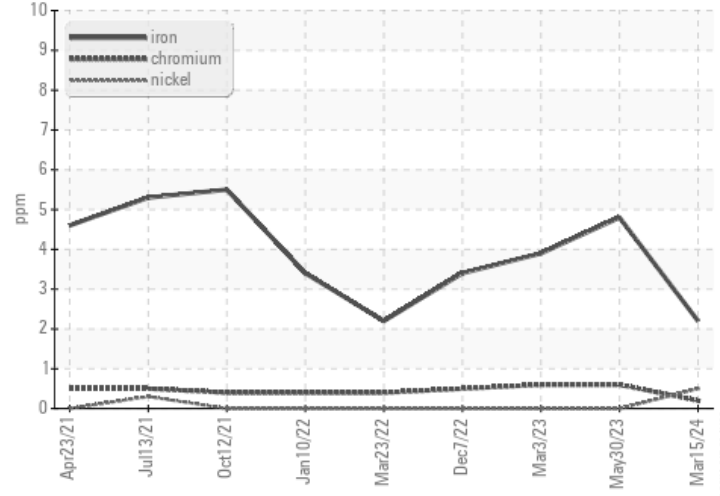


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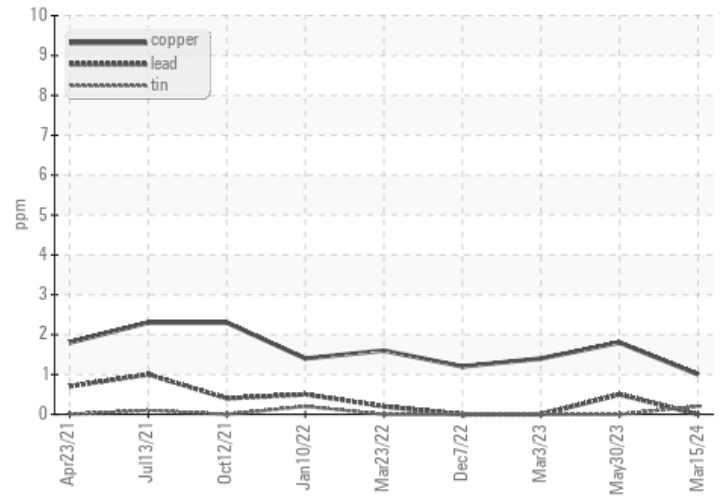


GRAPHS

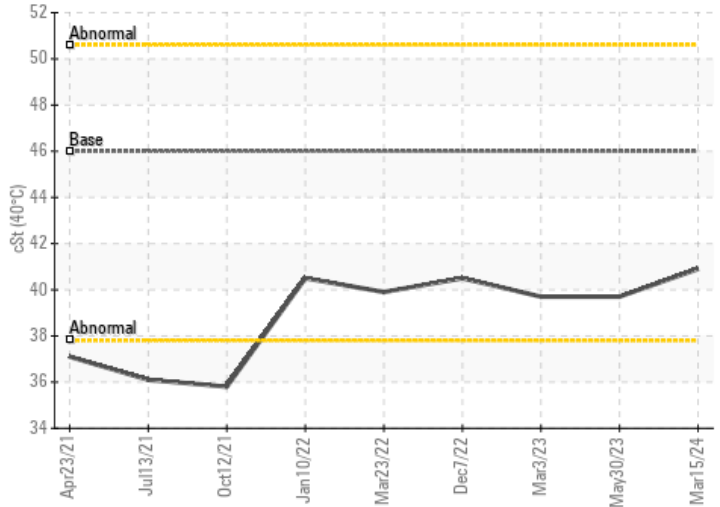
Ferrous Alloys



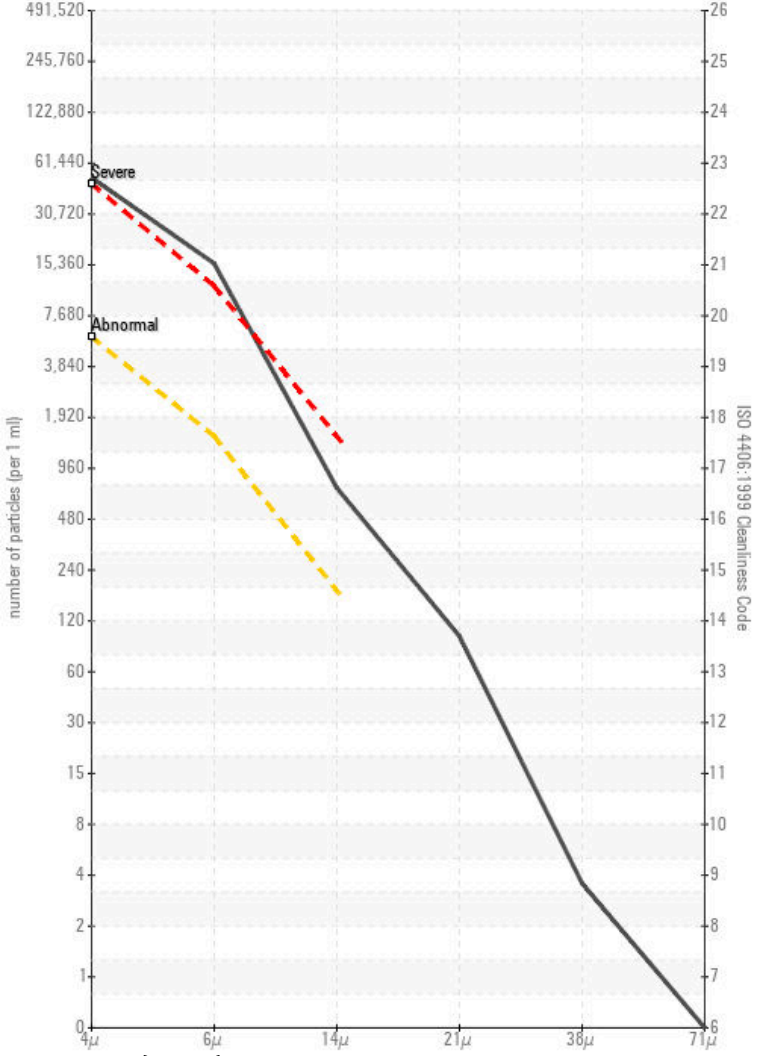
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

