



CONSTRUCTION EQUIPMENT

SPM647231 SENNEBOGAN 835M 835.0.2 195 - HYDRAULIC SYSTEM



Sample No: VCP435705
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM647231



SAMPLE INFORMATION

Sample Number	VCP435705	VCP401719	VCP404154	VCP343312
Sample Date	03 Feb 2024	02 Aug 2023	03 Apr 2023	24 Aug 2022
Machine Hours	18465	18054	17516	16508
Oil Hours	0	0	0	0
Oil Changed	Not Changed	Not Changed	Changed	Not Changed
Sample Status	ABNORMAL	ABNORMAL	ATTENTION	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	43.1	43.4	43.2	43.9
Acid Number (AN)	mg KOH/g	0.25	0.41	0.30	0.42



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		11461	21908	6960	3134
Particles >6µm		1141	5332	1160	482
Particles >14µm		40	322	64	29
ISO 4406:1999 (c)		21/17/12	22/20/16	20/17/13	19/16/12
Silicon	ppm	<1	<1	<1	<1
Sodium	ppm	3	4	3	6
Potassium	ppm	0	0	0	0

Diagnosis

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. 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 oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



WEAR METALS

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



ADDITIVES

Calcium	ppm	101	113	56	62
Magnesium	ppm	1	7	8	7
Zinc	ppm	404	460	413	447
Phosphorus	ppm	328	370	357	374
Barium	ppm	0	0	0	0
Boron	ppm	<1	0	0	1

Depot: SIMCHIL
Unique No: 10882921
Signed: Wes Davis
Report Date: 16 Feb 2024

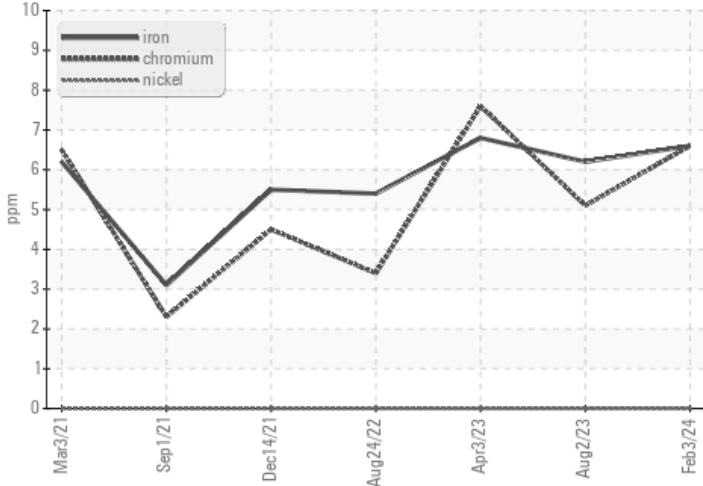


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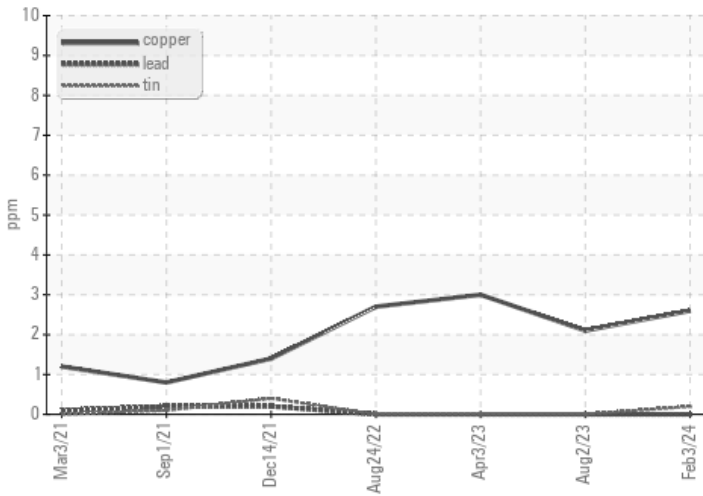


GRAPHS

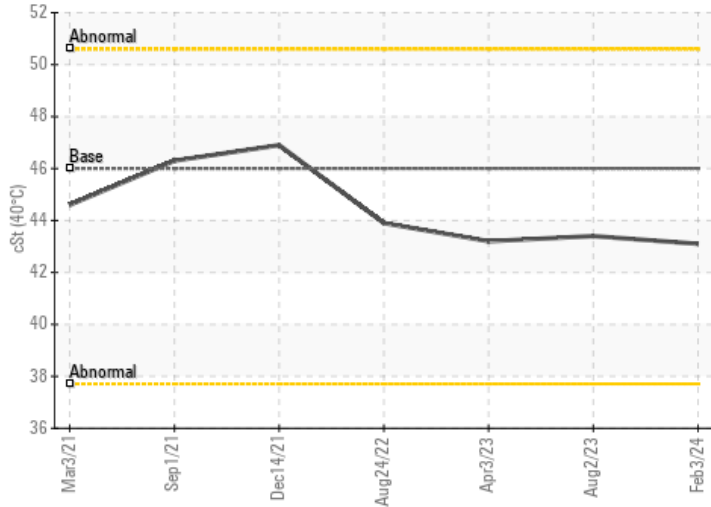
Ferrous Alloys



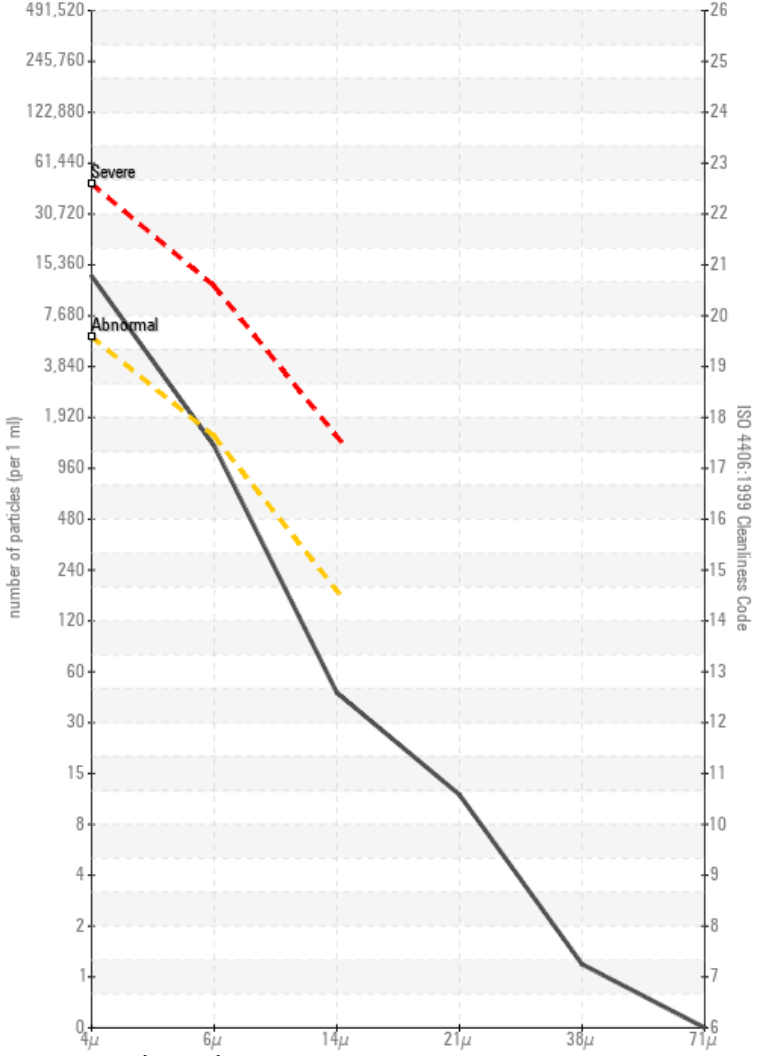
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

