



CONSTRUCTION EQUIPMENT

SPM581453 SENNEBOGAN 835M 835.0.2 195 - HYDRAULIC SYSTEM



Sample No: VCP401719
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM581453



SAMPLE INFORMATION

Sample Number	VCP401719	VCP404154	VCP343312	VCP327316
Sample Date	02 Aug 2023	03 Apr 2023	24 Aug 2022	14 Dec 2021
Machine Hours	18054	17516	16508	15475
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Changed	Not Chngd	Not Chngd
Sample Status	ABNORMAL	ATTENTION	NORMAL	ABNORMAL

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	43.4	43.2	43.9	46.9
Acid Number (AN)	mg KOH/g	0.41	0.30	0.42	0.619

CONTAMINATION

Particles >4µm		21908	6960	3134	12885
Particles >6µm		5332	1160	482	1946
Particles >14µm		322	64	29	92
ISO 4406:1999 (c)		22/20/16	20/17/13	19/16/12	21/18/14
Silicon	ppm	<1	<1	<1	<1
Sodium	ppm	4	3	6	16
Potassium	ppm	0	0	0	3

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates 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	6	7	5	6
Copper	ppm	2	3	3	1
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	1	<1	<1	<1
Chromium	ppm	5	8	3	4
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	113	56	62	129
Magnesium	ppm	7	8	7	45
Zinc	ppm	460	413	447	515
Phosphorus	ppm	370	357	374	421
Barium	ppm	0	0	0	0
Boron	ppm	0	0	1	8

Depot: SIMCHIL
Unique No: 10602073
Signed: Jonathan Hester
Report Date: 14 Aug 2023

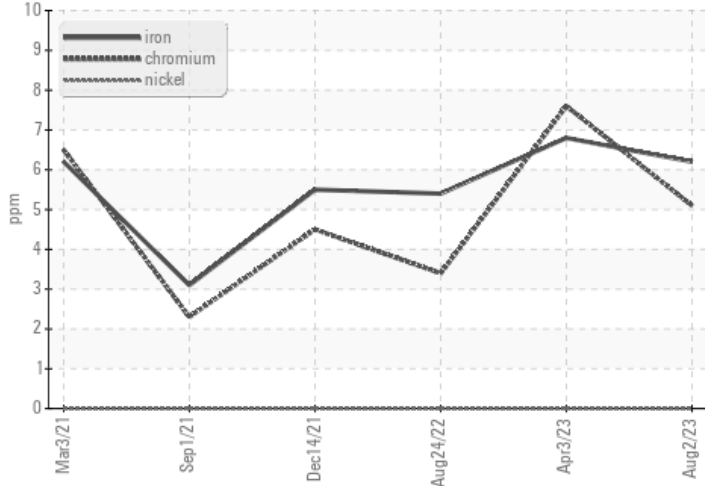


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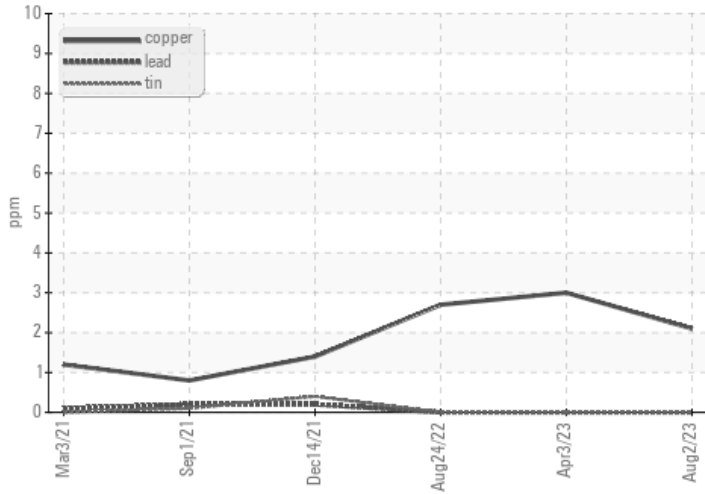


GRAPHS

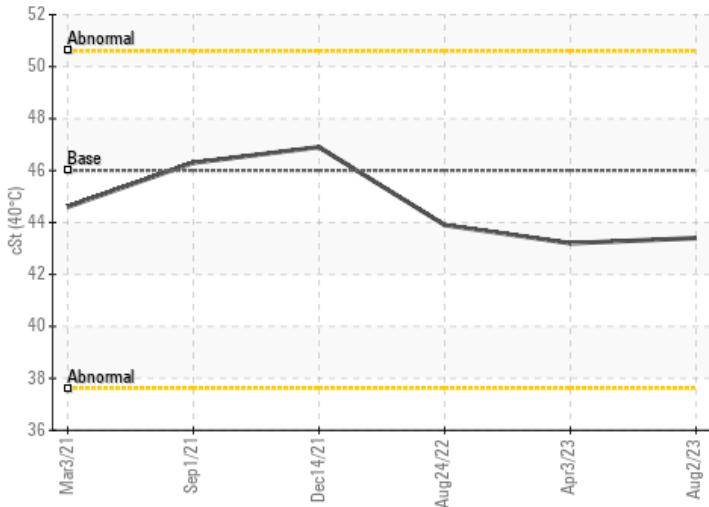
Ferrous Alloys



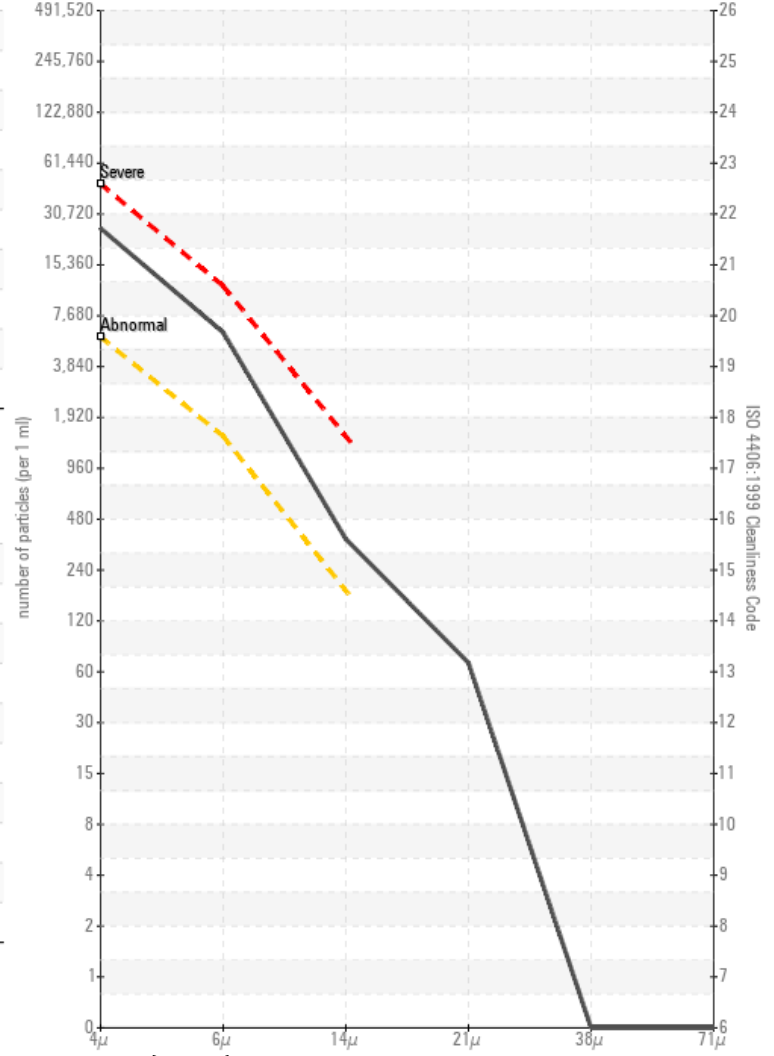
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

