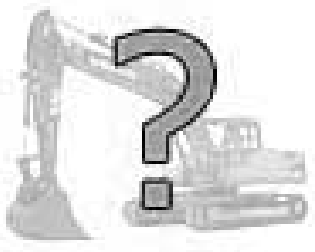
CONSTRUCTION EQUIPMENT

SPM593166 SENNEBOGEN 835M 835.0.2566 - HYDRAULIC SYSTEM

Sample No: VCP423146
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM593166



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SAMPLE INFORMATION

Sample Number		**VCP423146**	VCP399805	VCP379085	VCP361331
Sample Date		**04 Aug 2023**	21 Feb 2023	25 Jul 2022	19 Apr 2022
Machine Hours		**10070**	8939	7543	6814
Oil Hours		**0**	0	0	0
Oil Changed		**Not Changd**	Not Changd	Not Changd	Not Changd
Sample Status		**ABNORMAL**	NORMAL	NORMAL	NORMAL

OIL CONDITION

Visc @ 40°C	cSt	**41.9**	41.9	41.4	40.5
Acid Number (AN)	mg KOH/g	**0.41**	0.41	0.71	1.45

CONTAMINATION

Particles >4µm		▲ **27969**	4881	3724	3781
Particles >6µm		▲ **8268**	1014	965	761
Particles >14µm		▲ **612**	33	49	40
ISO 4406:1999 (c)		**22/20/16**	19/17/12	19/17/13	19/17/12
Silicon	ppm	**<1**	<1	<1	1
Sodium	ppm	**2**	0	3	2
Potassium	ppm	**0**	0	0	<1

WEAR METALS

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

ADDITIVES

Calcium	ppm	**83**	89	257	319
Magnesium	ppm	**7**	9	78	99
Zinc	ppm	**497**	540	812	931
Phosphorus	ppm	**406**	405	600	718
Barium	ppm	**0**	0	0	0
Boron	ppm	**0**	0	3	2

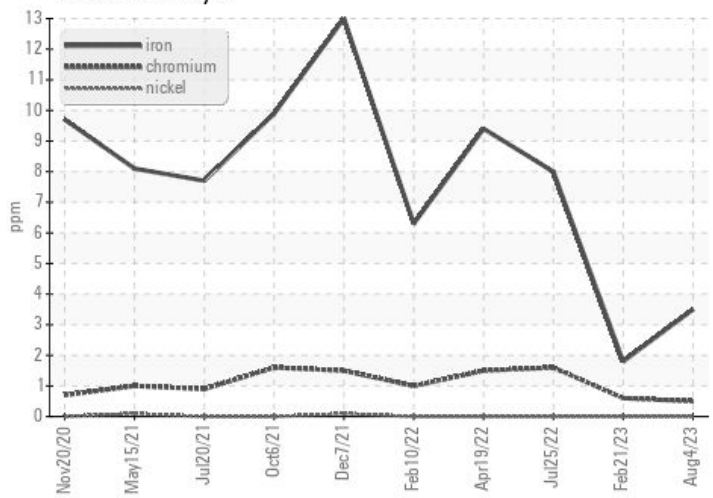
Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a moderate 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.

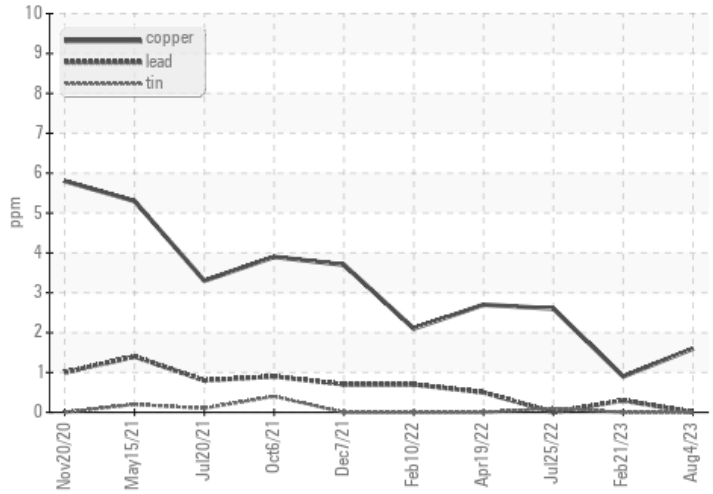
Depot: BELBOU
Unique No: 10602081
Signed: Wes Davis
Report Date: 14 Aug 2023

GRAPHS

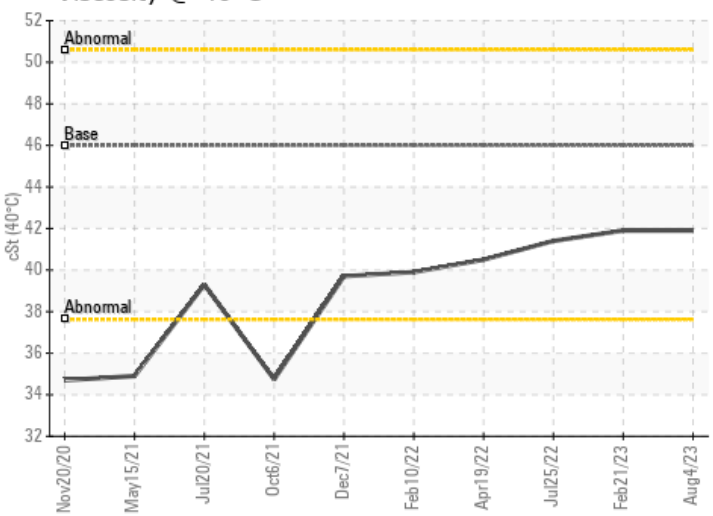
Ferrous Alloys



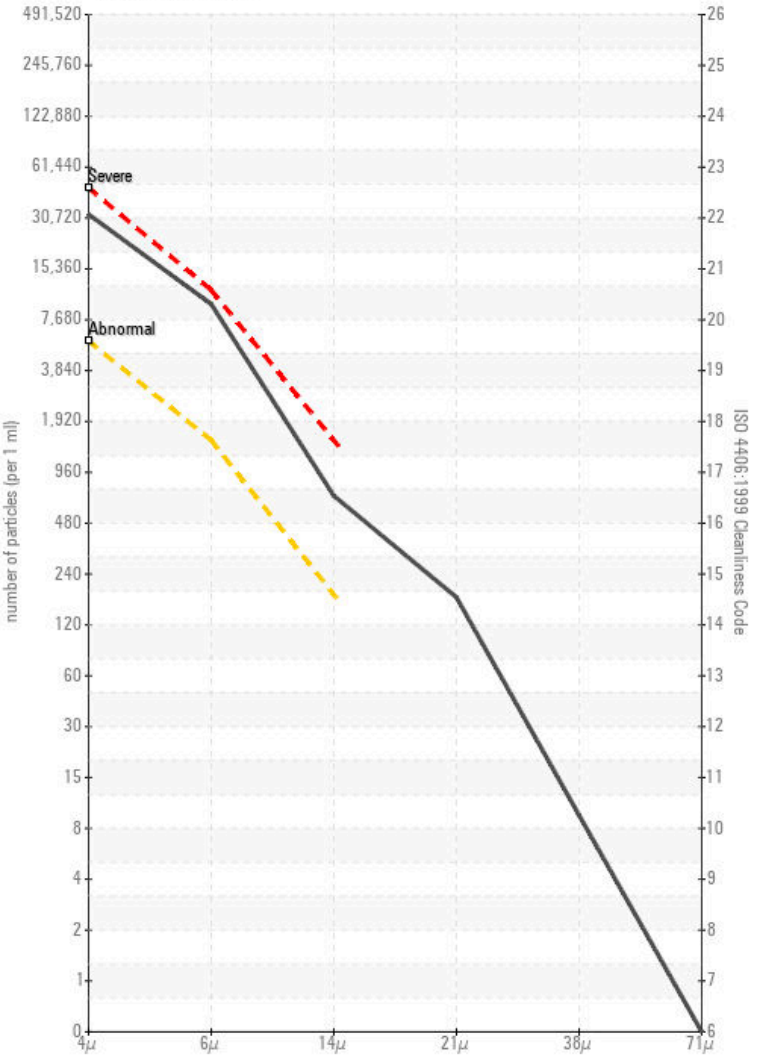
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number