



CONSTRUCTION EQUIPMENT

SPM593192 SENNEBOGEN 835ME 835.0.2845 - HYDRAULIC SYSTEM



Sample No: VCP406649
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM593192



SAMPLE INFORMATION

Sample Number	VCP406649	VCP400514	VCP378911	VCP348370
Sample Date	04 Aug 2023	22 Mar 2023	23 May 2022	10 Mar 2022
Machine Hours	5542	4535	2518	1952
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Changed	Not Chngd	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	ABNORMAL

BELSON STEEL
 1685 N STATE RTE 50
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 US 60914
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 F:

OIL CONDITION

Visc @ 40°C	cSt	40.4	40.0	44.8	31.4
Acid Number (AN)	mg KOH/g	0.73	0.46	0.74	1.24

CONTAMINATION

Particles >4µm	13113	1386	3288	13509	
Particles >6µm	4219	253	209	1911	
Particles >14µm	388	8	15	150	
ISO 4406:1999 (c)	21/19/16	18/15/10	19/15/11	21/18/14	
Silicon	ppm	1	2	1	2
Sodium	ppm	2	0	2	0
Potassium	ppm	0	<1	0	2

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.

WEAR METALS

Iron	ppm	6	4	5	11
Copper	ppm	3	3	5	8
Lead	ppm	0	<1	<1	1
Tin	ppm	0	0	0	0
Aluminum	ppm	2	0	<1	1
Chromium	ppm	1	<1	<1	1
Molybdenum	ppm	<1	1	<1	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	311	192	569	1354
Magnesium	ppm	3	6	3	4
Zinc	ppm	476	488	554	729
Phosphorus	ppm	398	385	461	603
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	<1

Depot: BELBOU
Unique No: 10602065
Signed: Angela Borella
Report Date: 14 Aug 2023

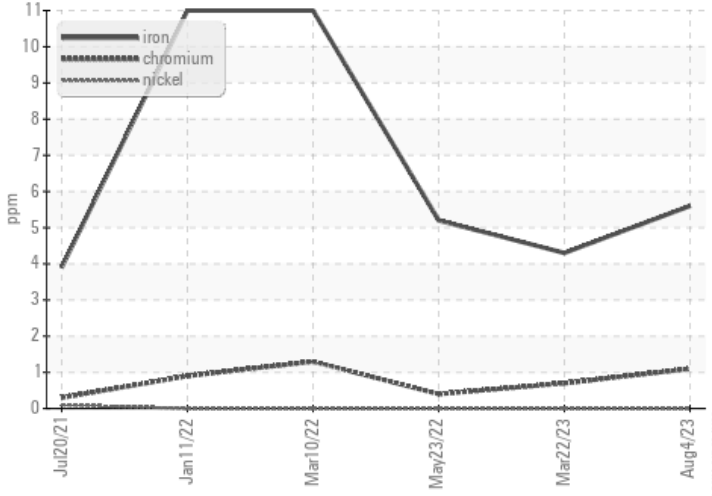


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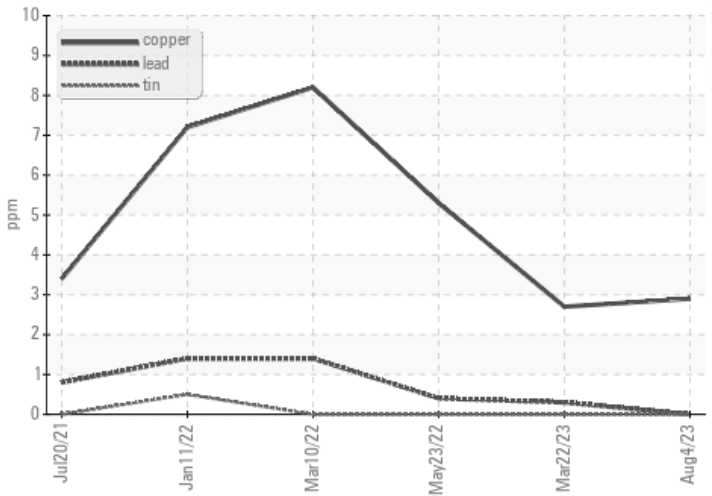


GRAPHS

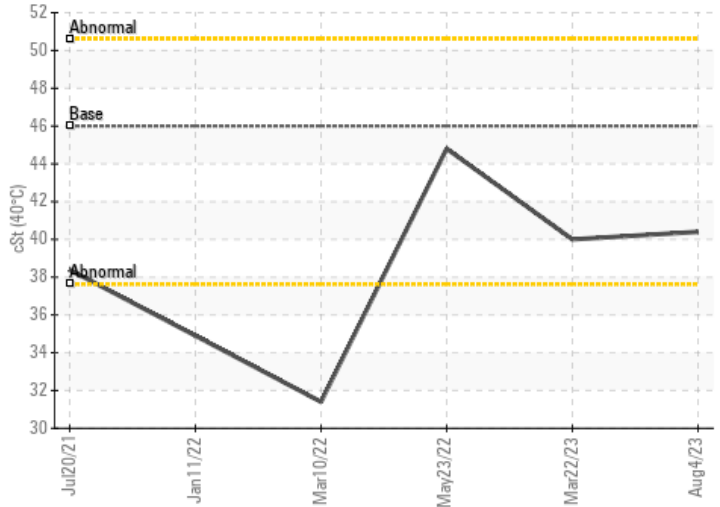
Ferrous Alloys



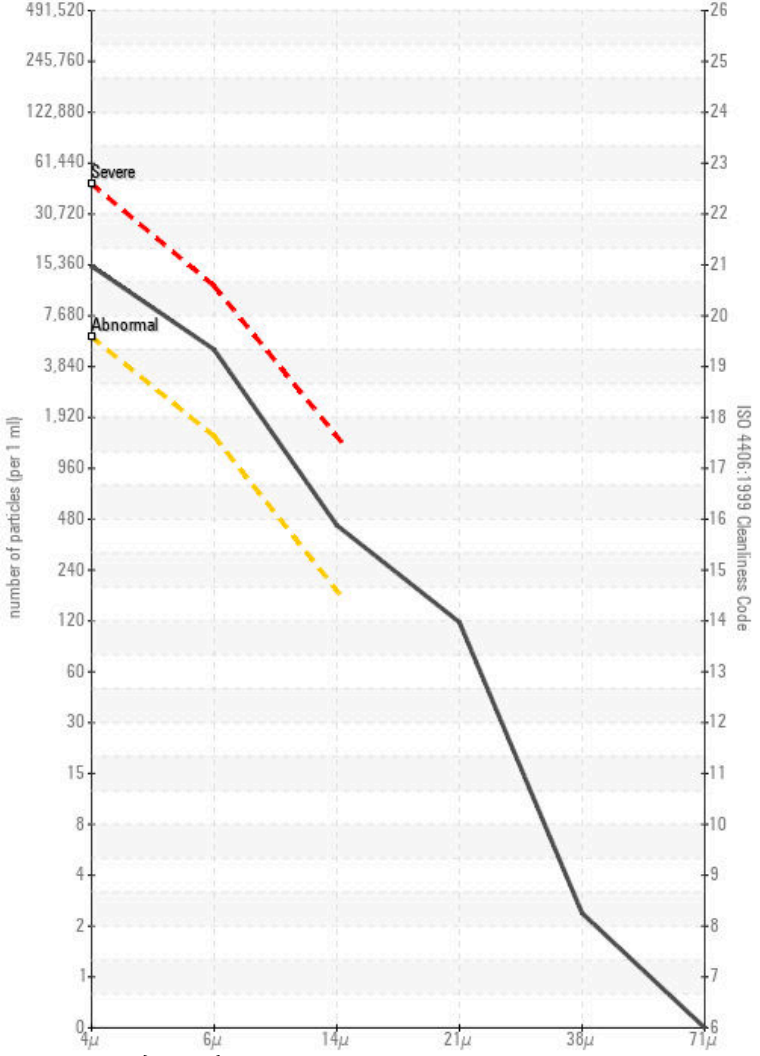
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

