



CONSTRUCTION EQUIPMENT

SPM605741 BL DUKE SENNEBOGEN 835ME 835.0.2813 - HYDRAULIC SYSTEM



Sample No: VCP415213
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM605741 BL DUKE



SAMPLE INFORMATION

Sample Number	VCP415213	VCP389999	VCP400457	VCP365786
Sample Date	12 Sep 2023	01 Mar 2023	04 Jan 2023	19 Oct 2022
Machine Hours	5520	4525	4103	3722
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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 5000 INDUSTRIAL HWY
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 US 46406
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OIL CONDITION

Visc @ 40°C	cSt	38.3	39.0	38.0	38.3
Acid Number (AN)	mg KOH/g	0.63	0.61	0.84	0.76

CONTAMINATION

Particles >4µm	1496	1148	1817	12040	
Particles >6µm	338	288	443	1648	
Particles >14µm	58	21	38	59	
ISO 4406:1999 (c)	18/16/13	17/15/12	18/16/12	21/18/13	
Silicon	ppm	<1	1	<1	2
Sodium	ppm	4	2	1	4
Potassium	ppm	<1	0	1	<1

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

WEAR METALS

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

ADDITIVES

Calcium	ppm	257	234	554	535
Magnesium	ppm	2	<1	3	3
Zinc	ppm	537	495	645	632
Phosphorus	ppm	443	389	505	497
Barium	ppm	0	0	0	2
Boron	ppm	0	0	0	0

Depot: VOLVO8885
Unique No: 10658203
Signed: Wes Davis
Report Date: 22 Sep 2023

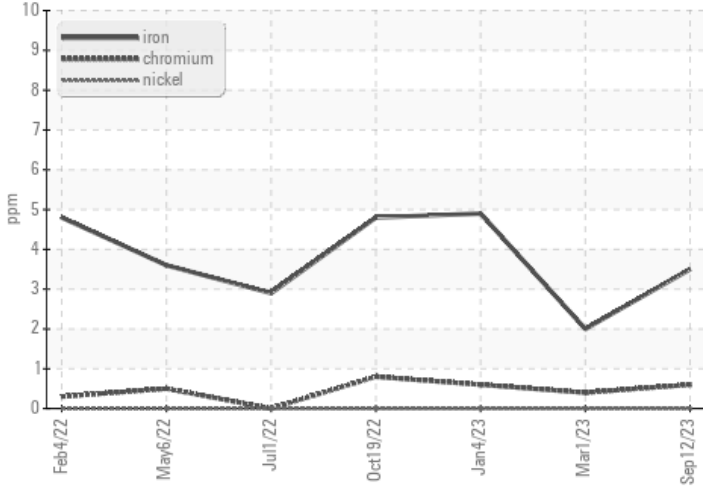


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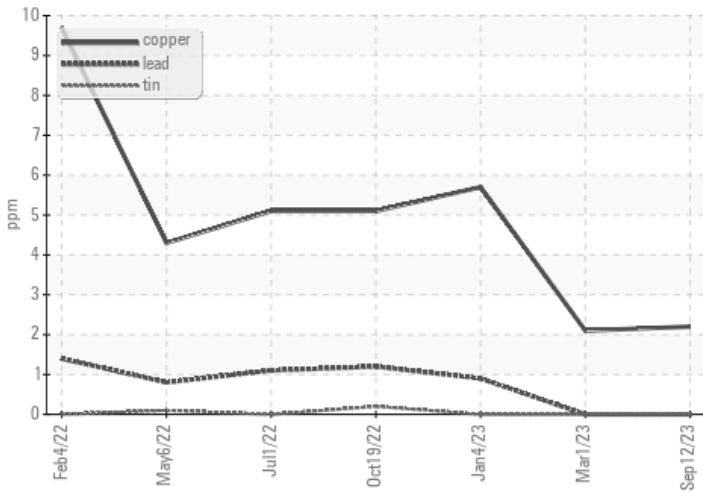


GRAPHS

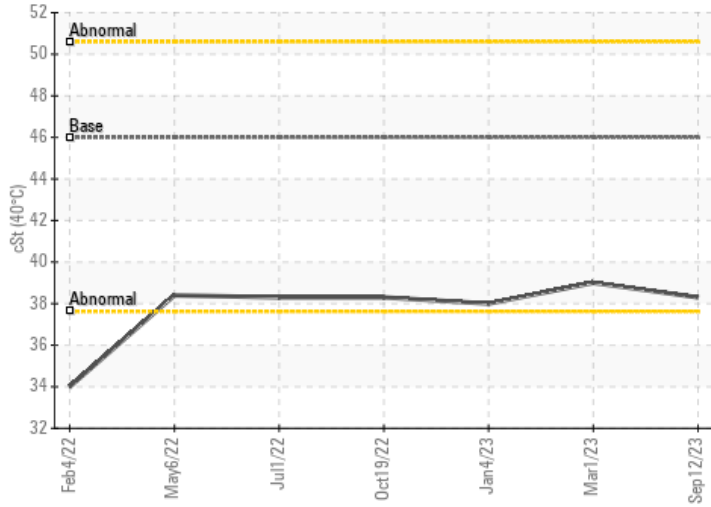
Ferrous Alloys



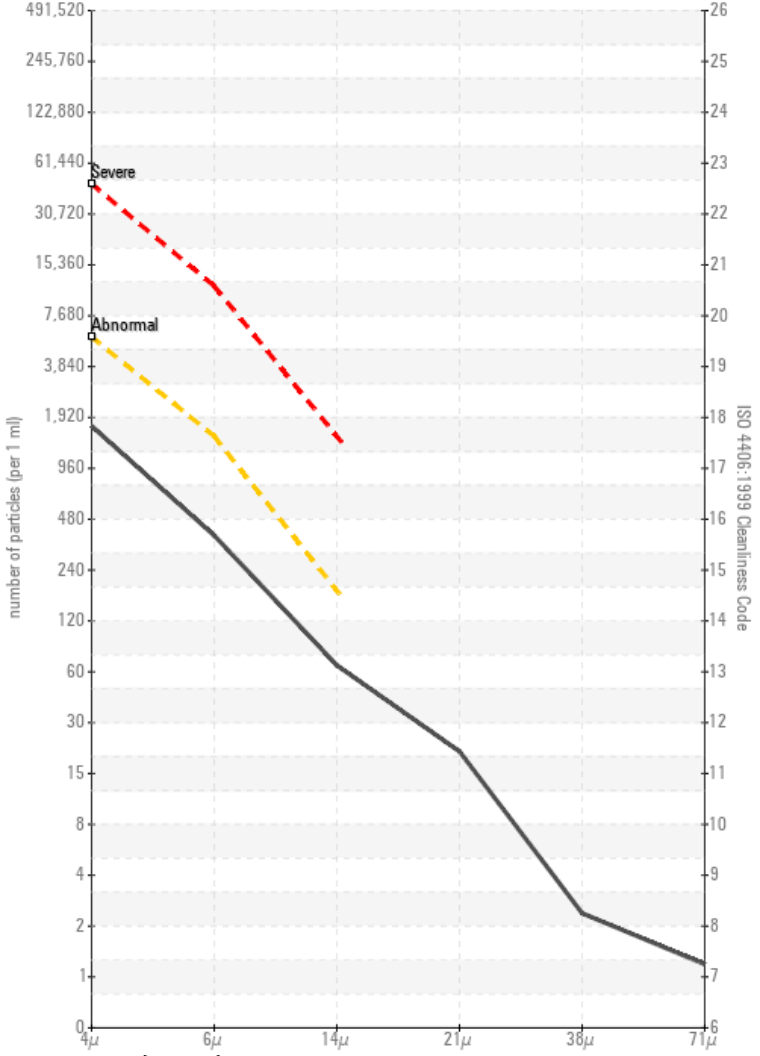
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

