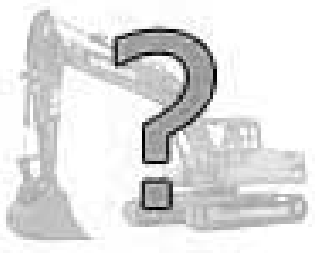
CONSTRUCTION EQUIPMENT

SPM605726 BL DUKE SENNOBOGEN 835M 835.0.2625 - HYDRAULIC SYSTEM

Sample No: VCP415215
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM605726 BL DUKE



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US 46406
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SAMPLE INFORMATION

Sample Number		**VCP415215**	VCP397577	VCP366808	VCP354521
Sample Date		**12 Sep 2023**	17 Feb 2023	29 Aug 2022	13 Apr 2022
Machine Hours		**4620**	3163	1882	1220
Oil Hours		**0**	0	0	0
Oil Changed		**Not Changd**	Not Changd	Not Changd	Not Changd
Sample Status		**NORMAL**	NORMAL	NORMAL	ABNORMAL

OIL CONDITION

Visc @ 40°C	cSt	**38.2**	38.1	38.4	38.7
Acid Number (AN)	mg KOH/g	**0.83**	0.80	0.86	0.95

CONTAMINATION

Particles >4µm		**4610**	3199	3458	10613
Particles >6µm		**1145**	443	583	1089
Particles >14µm		**77**	30	26	51
ISO 4406:1999 (c)		**19/17/13**	19/16/12	19/16/12	21/17/13
Silicon	ppm	**2**	2	2	<1
Sodium	ppm	**6**	4	3	0
Potassium	ppm	**<1**	0	0	2

WEAR METALS

Iron	ppm	**10**	8	8	6
Copper	ppm	**3**	2	2	2
Lead	ppm	**1**	<1	1	1
Tin	ppm	**0**	0	<1	0
Aluminum	ppm	**<1**	<1	1	<1
Chromium	ppm	**2**	<1	<1	<1
Molybdenum	ppm	**<1**	<1	<1	<1
Nickel	ppm	**0**	0	<1	0
Titanium	ppm	**0**	0	0	0
Silver	ppm	**0**	0	<1	<1
Manganese	ppm	**<1**	<1	<1	<1
Vanadium	ppm	**0**	0	0	0

ADDITIVES

Calcium	ppm	**1339**	1116	1065	927
Magnesium	ppm	**22**	11	14	9
Zinc	ppm	**719**	528	620	567
Phosphorus	ppm	**571**	467	527	460
Barium	ppm	**0**	0	0	0
Boron	ppm	**9**	8	6	<1

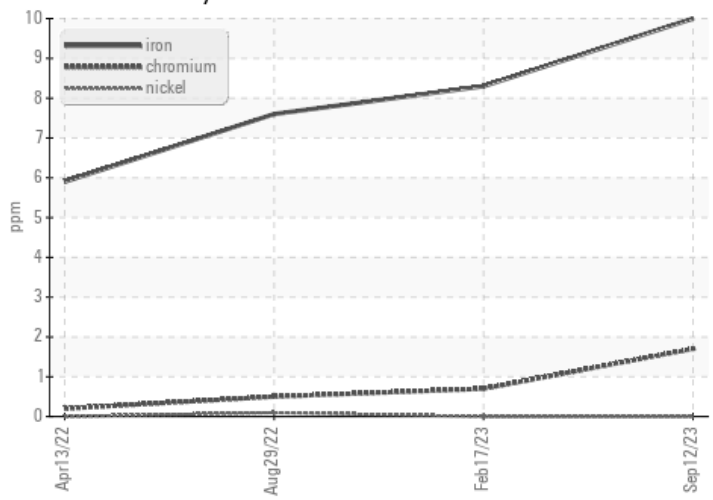
Diagnosis

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.

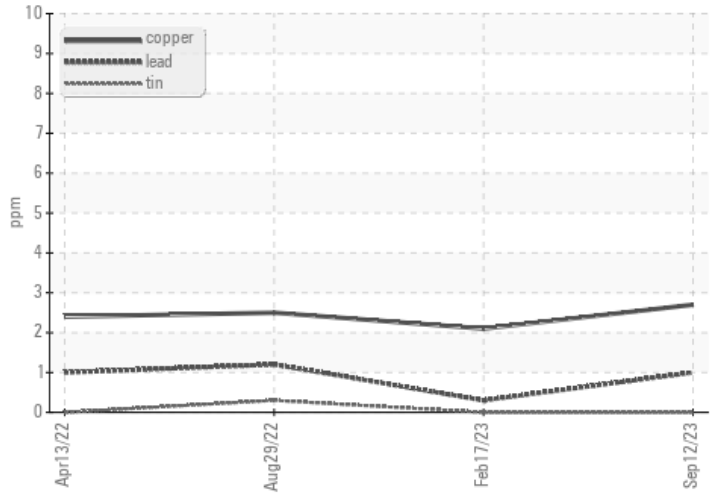
Depot: VOLVO8885
Unique No: 10658202
Signed: Wes Davis
Report Date: 22 Sep 2023

GRAPHS

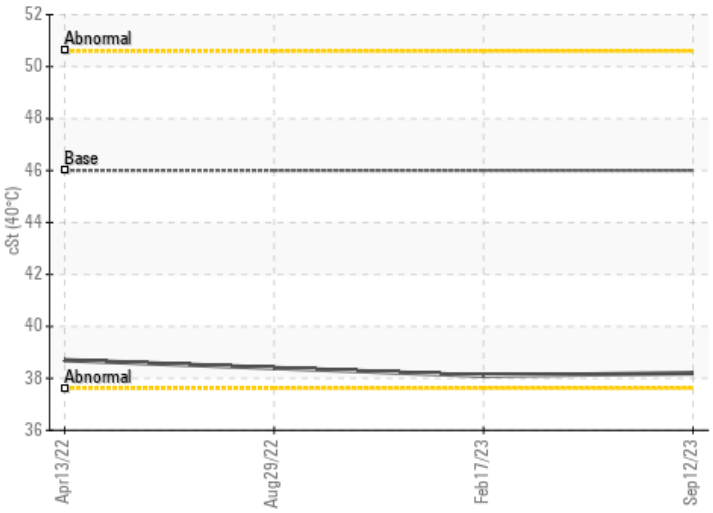
Ferrous Alloys



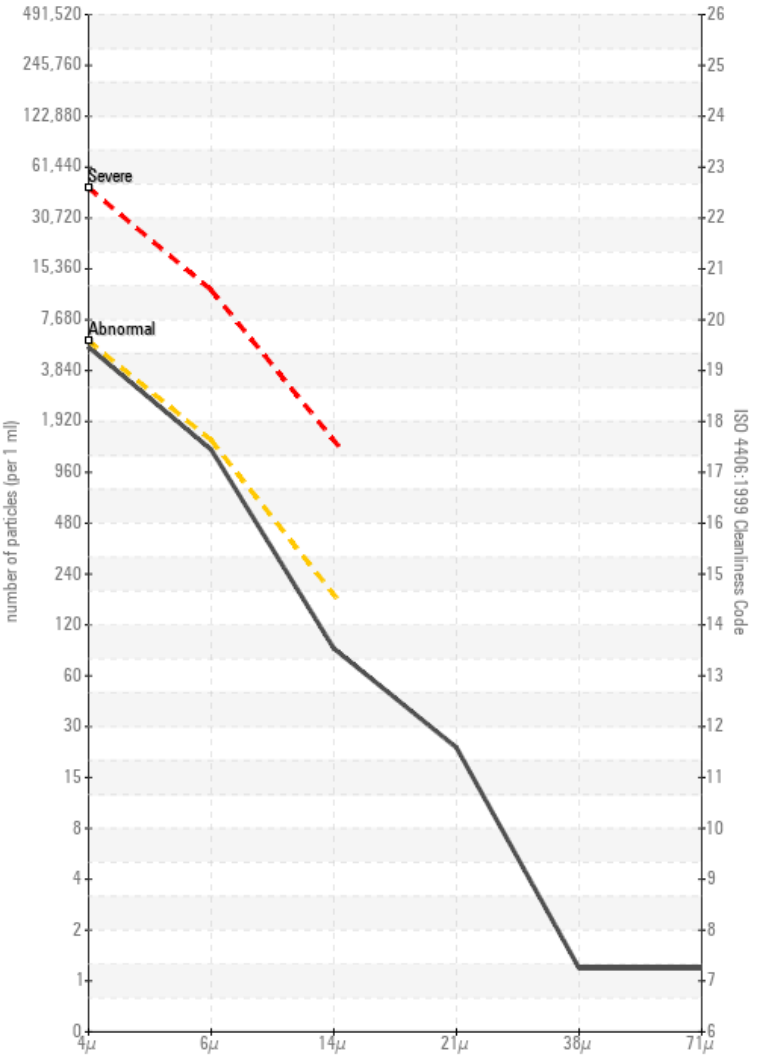
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number