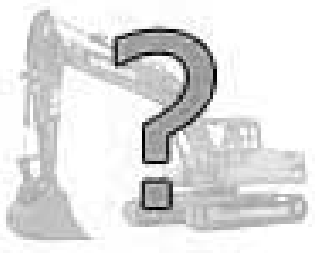
CONSTRUCTION EQUIPMENT

SPM621711 BL DUKE SENNEBOGEN 835ME 835.0.2810 - HYDRAULIC SYSTEM

Sample No: VCP416909
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM621711 BL DUKE



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SAMPLE INFORMATION

Sample Number		**VCP416909**	VCP383254	VCP380525	VCP365817
Sample Date		**18 Oct 2023**	09 Mar 2023	17 Feb 2023	19 Oct 2022
Machine Hours		**6955**	5516	5387	4582
Oil Hours		**0**	0	0	0
Oil Changed		**Not Changd**	Not Changd	Changed	Not Changd
Sample Status		**ABNORMAL**	NORMAL	NORMAL	ABNORMAL

OIL CONDITION

Visc @ 40°C	cSt	**40.6**	41.4	42.6	41.5
Acid Number (AN)	mg KOH/g	**0.92**	0.67	0.79	0.81

CONTAMINATION

Particles >4µm		**10450**	2784	3967	12884
Particles >6µm		**2247**	351	799	1944
Particles >14µm		**65**	15	68	109
ISO 4406:1999 (c)		**21/18/13**	19/16/11	19/17/13	21/18/14
Silicon	ppm	**2**	2	2	1
Sodium	ppm	**5**	2	3	<1
Potassium	ppm	**<1**	0	0	<1

WEAR METALS

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

ADDITIVES

Calcium	ppm	**908**	493	476	337
Magnesium	ppm	**79**	97	85	100
Zinc	ppm	**821**	772	660	792
Phosphorus	ppm	**683**	636	546	622
Barium	ppm	**0**	0	0	2
Boron	ppm	**10**	8	7	3

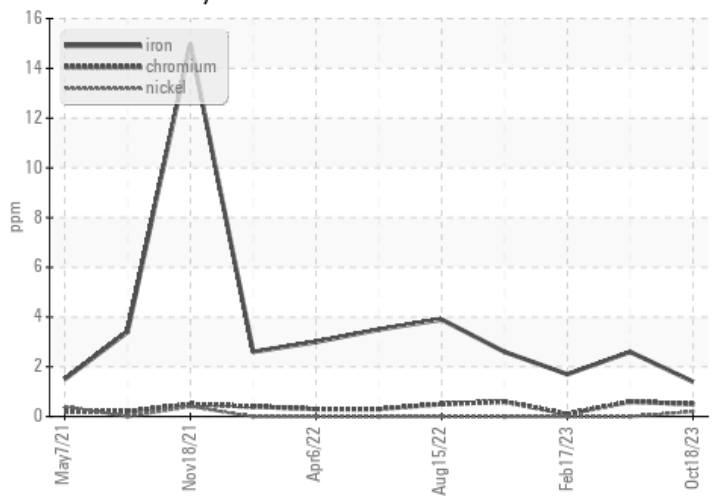
Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

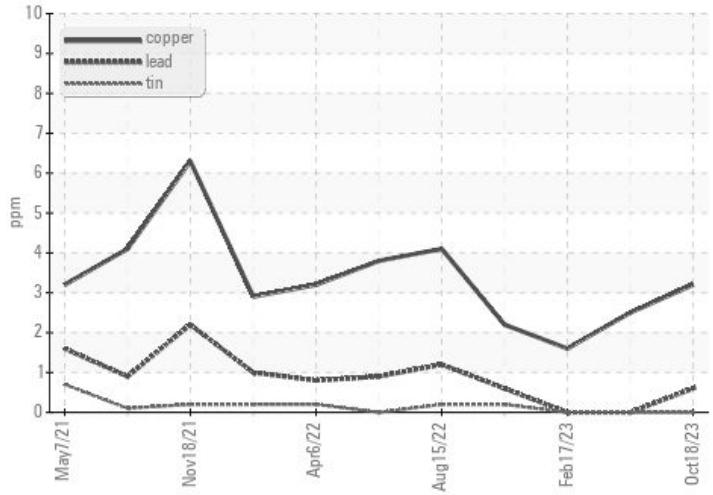
Depot: VOLVO8885
Unique No: 10737964
Signed: Don Baldridge
Report Date: 14 Nov 2023

GRAPHS

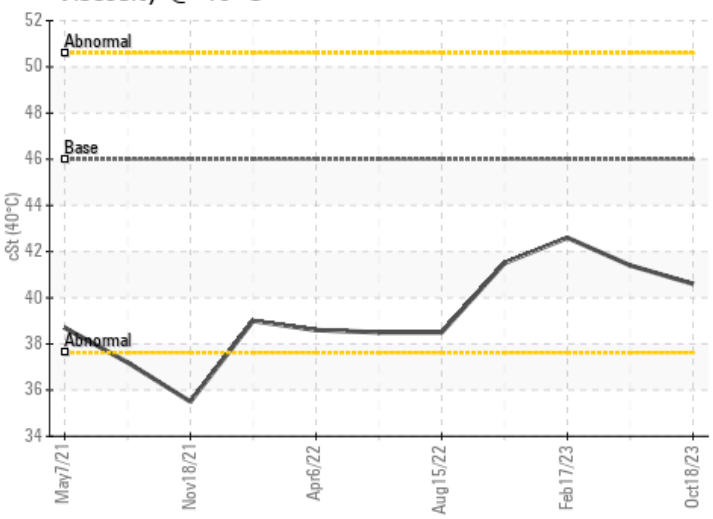
Ferrous Alloys



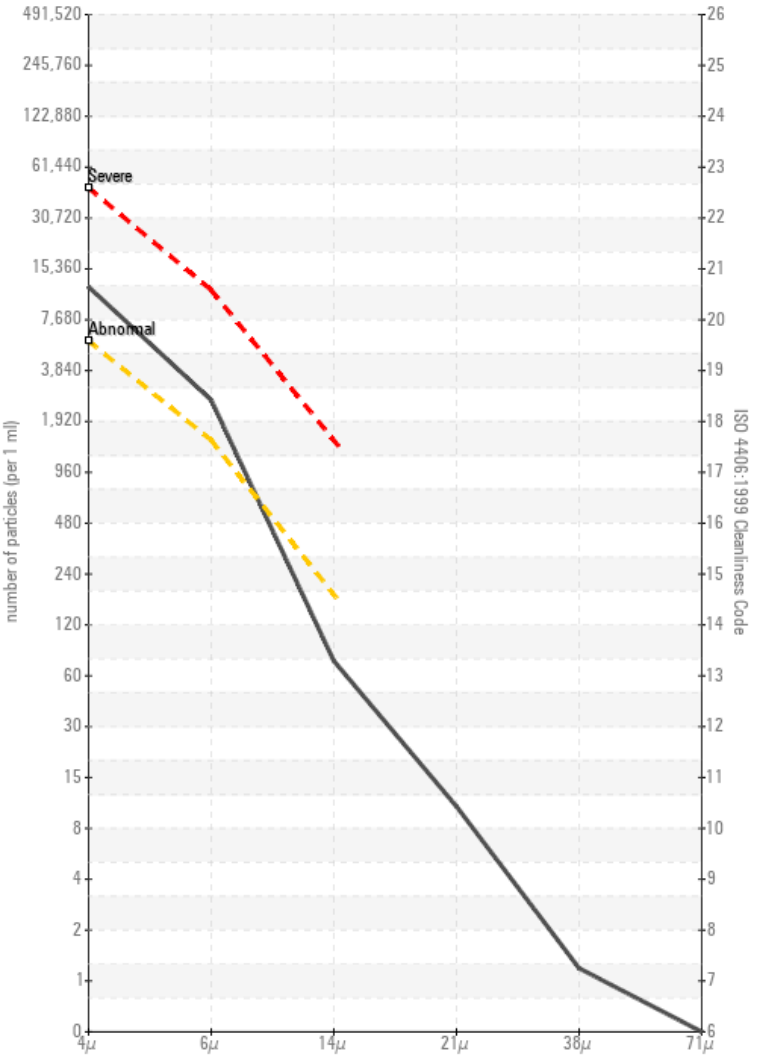
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number