CONSTRUCTION EQUIPMENT
4870 IAA VOLVO L90H 623880 - HYDRAULIC SYSTEM

Sample No: VCP438983
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 4870 IAA

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SAMPLE INFORMATION

Sample Number		**VCP438983**	VCP422013	VCP355230	VCP342273
Sample Date		**04 Jan 2024**	11 May 2023	01 Jul 2022	04 Feb 2022
Machine Hours		**8022**	7479	6400	5935
Oil Hours		**0**	0	0	0
Oil Changed		**Not Changd**	Not Changd	Changed	Not Changd
Sample Status		**NORMAL**	NORMAL	NORMAL	NORMAL

OIL CONDITION

Visc @ 40°C	cSt	**44.2**	44.0	41.5	43.7
Acid Number (AN)	mg KOH/g	**0.36**	0.48	0.32	0.33

CONTAMINATION

Water	%	**NEG**	NEG	NEG	NEG
Particles >4µm		**875**	886	4286	3712
Particles >6µm		**190**	133	771	500
Particles >14µm		**24**	12	41	27
ISO 4406:1999 (c)		**17/15/12**	17/14/11	19/17/13	19/16/12
Silicon	ppm	**<1**	<1	3	3
Sodium	ppm	**<1**	0	0	2
Potassium	ppm	**0**	0	1	0

WEAR METALS

Iron	ppm	**3**	4	8	10
Copper	ppm	**2**	2	5	6
Lead	ppm	**0**	0	2	2
Tin	ppm	**0**	0	<1	<1
Aluminum	ppm	**0**	0	1	<1
Chromium	ppm	**<1**	1	3	3
Molybdenum	ppm	**2**	3	1	2
Nickel	ppm	**0**	0	0	0
Titanium	ppm	**0**	0	0	0
Silver	ppm	**0**	0	0	0
Manganese	ppm	**0**	0	0	0
Vanadium	ppm	**0**	0	0	0

ADDITIVES

Calcium	ppm	**124**	126	67	79
Magnesium	ppm	**24**	26	4	6
Zinc	ppm	**466**	462	429	454
Phosphorus	ppm	**375**	362	327	362
Barium	ppm	**0**	0	2	0
Boron	ppm	**1**	0	1	1

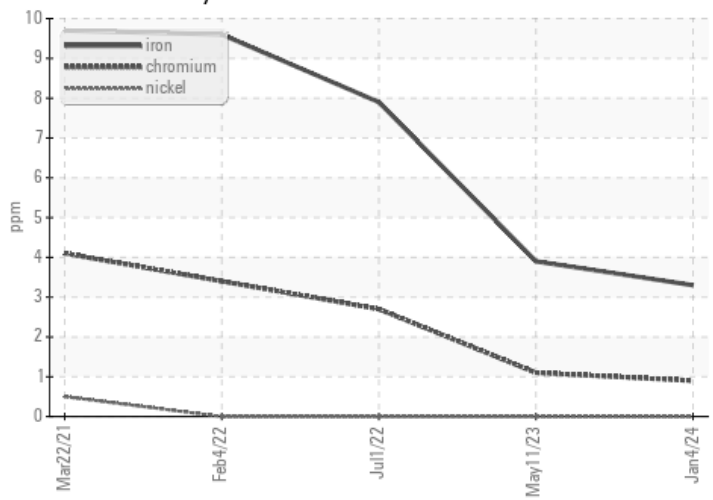
Diagnosis

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.

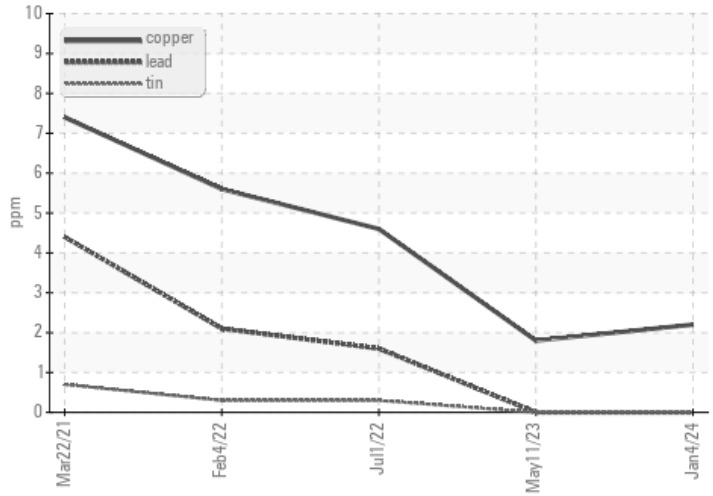
Depot: VOLVO0096
Unique No: 10830635
Signed: Wes Davis
Report Date: 15 Jan 2024

GRAPHS

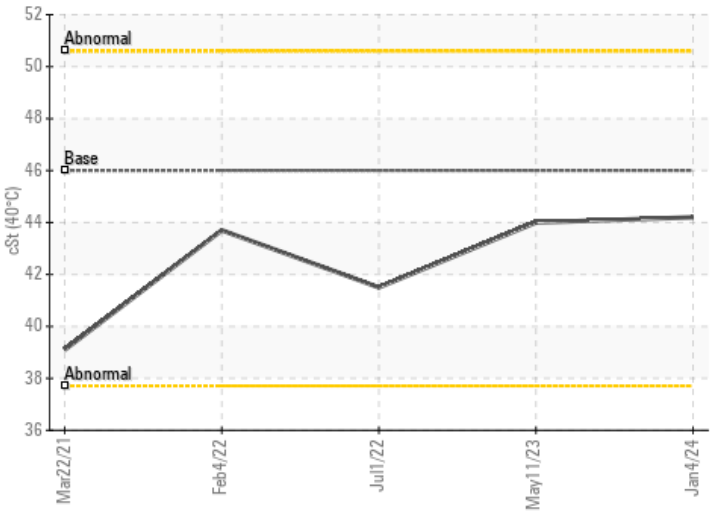
Ferrous Alloys



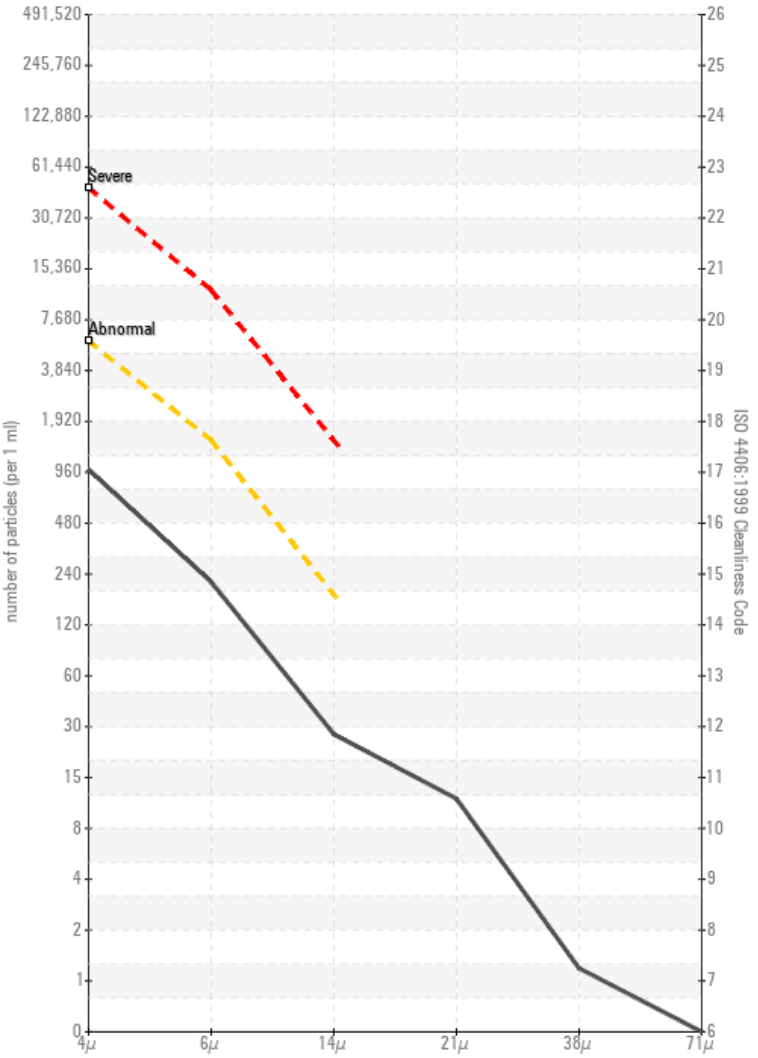
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number