



CONSTRUCTION EQUIPMENT

659961 APTIM VOLVO A35G 340070 - HYDRAULIC SYSTEM



Sample No: VCP452442
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 659961 APTIM



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SAMPLE INFORMATION

Sample Number	VCP452442	VCP422675	VCP410386	VCP386627
Sample Date	12 Jan 2024	26 Jun 2023	19 Apr 2023	08 Nov 2022
Machine Hours	9239	8469	7985	6869
Oil Hours	1000	4000	2000	2000
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	NORMAL	ATTENTION	NORMAL	ATTENTION



OIL CONDITION

Visc @ 40°C	cSt	43.1	41.3	41.5	41.9
Acid Number (AN)	mg KOH/g	0.46	0.79	0.69	0.73



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		2979	8534	2583	8109
Particles >6µm		768	3254	589	2721
Particles >14µm		36	315	44	189
ISO 4406:1999 (c)		19/17/12	20/19/15	19/16/13	20/19/15
Silicon	ppm	4	5	5	4
Sodium	ppm	4	2	5	1
Potassium	ppm	2	1	3	0



WEAR METALS

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



ADDITIVES

Calcium	ppm	484	794	799	850
Magnesium	ppm	16	26	31	26
Zinc	ppm	564	644	673	642
Phosphorus	ppm	464	518	559	552
Barium	ppm	0	2	0	0
Boron	ppm	4	1	2	0

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: VOLVO0093
Unique No: 10886440
Signed: Wes Davis
Report Date: 20 Feb 2024

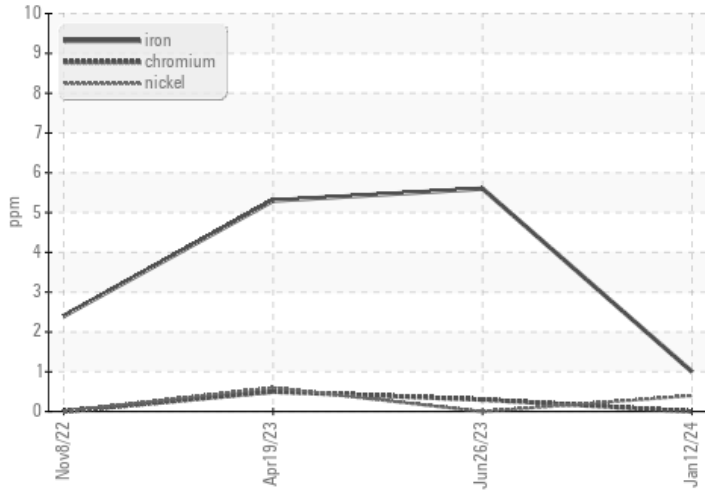


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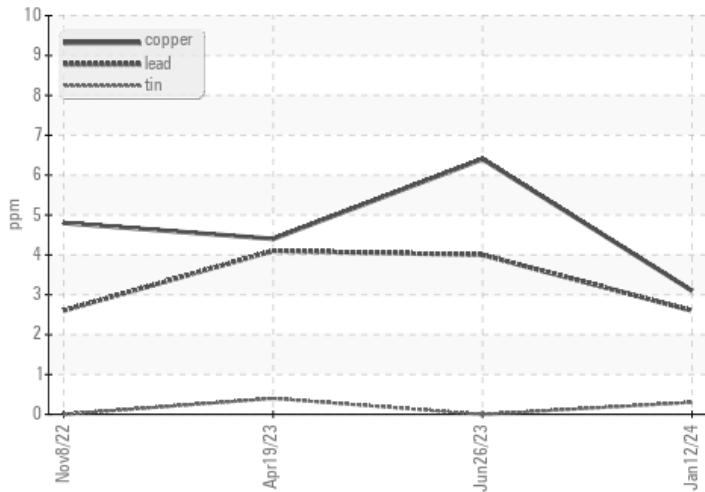


GRAPHS

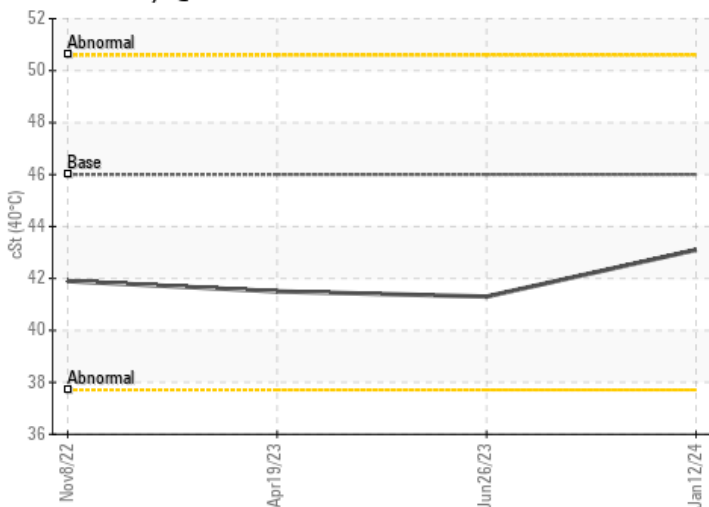
Ferrous Alloys



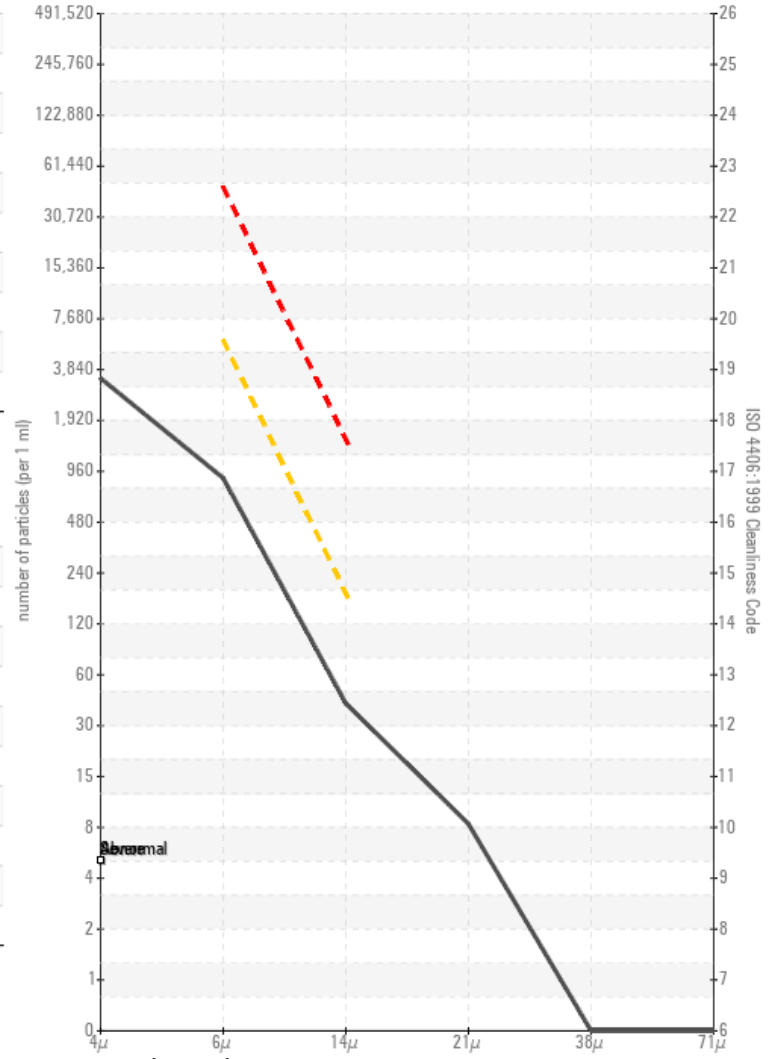
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

