



CONSTRUCTION EQUIPMENT

580677 APTIM VOLVO A35G 340041 - HYDRAULIC SYSTEM



Sample No: VCP417032
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 580677 APTIM



SAMPLE INFORMATION

Sample Number	VCP417032	VCP359722	VCP133399	VCP166907
Sample Date	28 Jul 2023	03 Feb 2023	31 May 2015	09 Dec 2014
Machine Hours	12724	11776	1194	548
Oil Hours	3000	3000	1194	548
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	41.2	41.5	40.12	41.08
Acid Number (AN)	mg KOH/g	0.75	0.62	0.508	0.453



CONTAMINATION

Particles >4µm		1314	3798	339	2222
Particles >6µm		249	946	184	631
Particles >14µm		12	50	31	39
ISO 4406:1999 (c)		18/15/11	19/17/13	16/15/12	18/16/12
Silicon	ppm	12	14	12	8
Sodium	ppm	0	3	<1	<1
Potassium	ppm	3	0	<1	2

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	11	13	2	<1
Copper	ppm	6	10	4	2
Lead	ppm	3	3	1	2
Tin	ppm	<1	<1	0	0
Aluminum	ppm	2	0	0	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	1	1	0	0
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	0	0
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	829	907	89	43
Magnesium	ppm	11	7	<1	0
Zinc	ppm	638	580	444	415
Phosphorus	ppm	473	457	333	319
Barium	ppm	0	0	0	0
Boron	ppm	3	3	5	<1

Depot: VOLVO0093
Unique No: 10589290
Signed: Wes Davis
Report Date: 08 Aug 2023

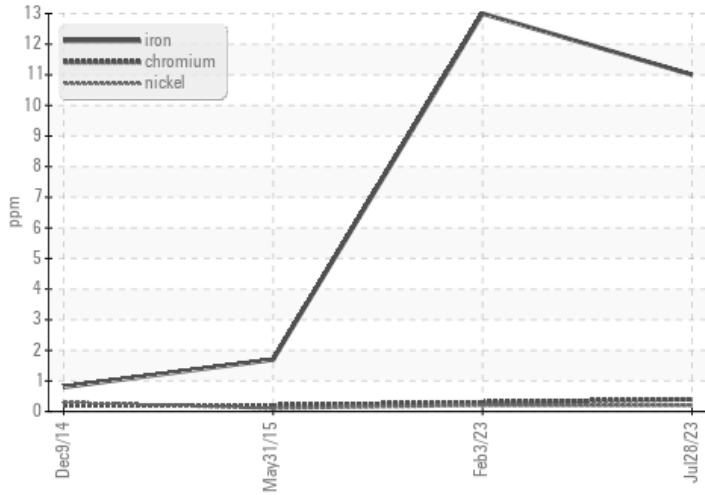


CONSTRUCTION EQUIPMENT

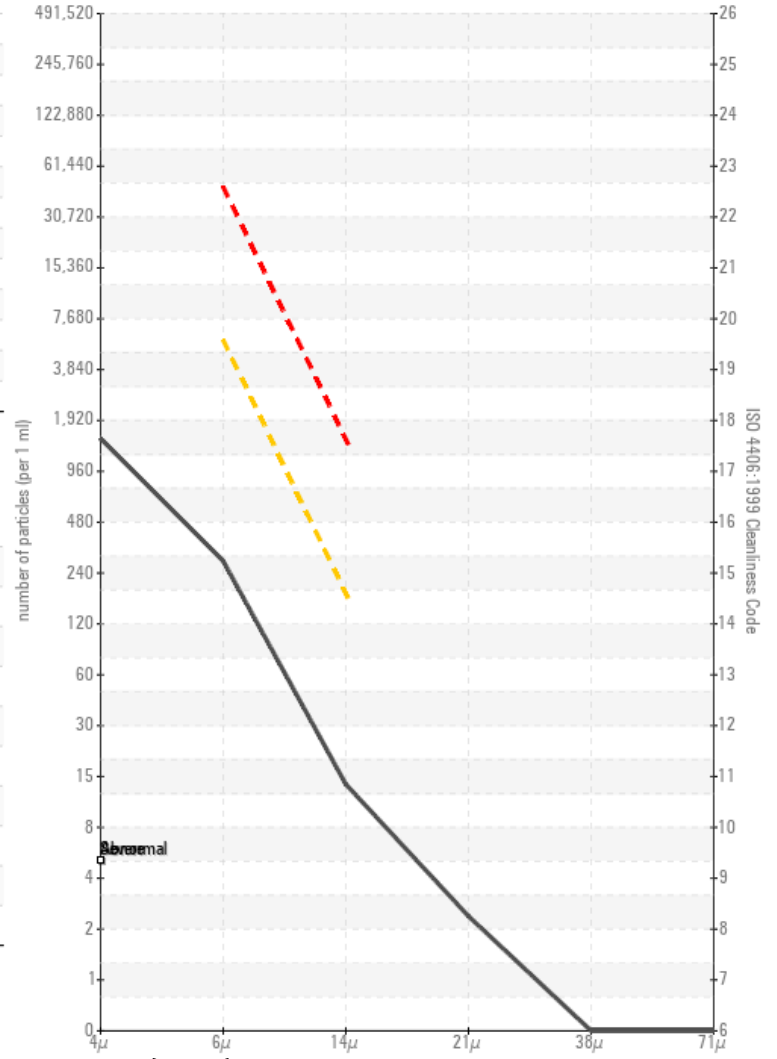


GRAPHS

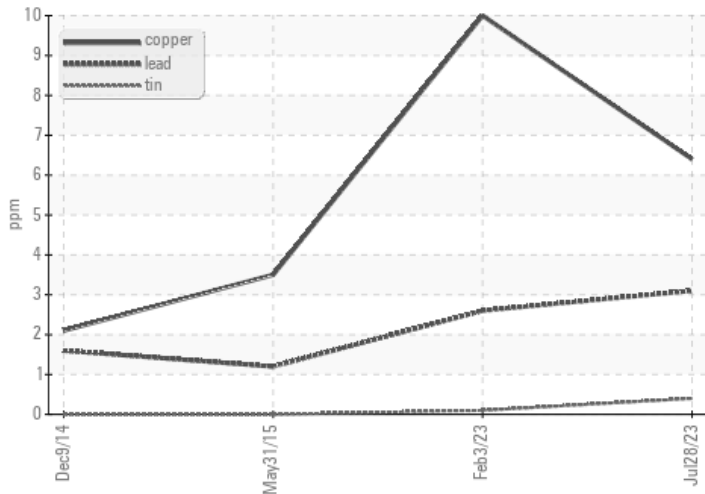
Ferrous Alloys



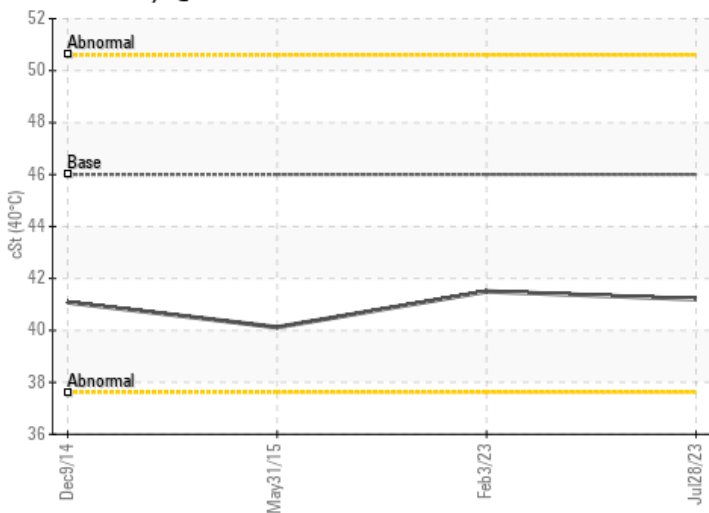
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

