



CONSTRUCTION EQUIPMENT

19617 BALFOUR BEATTY VOLVO A40G 352205 - HYDRAULIC SYSTEM



Sample No: VCP435318
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 19617 BALFOUR BEATTY



SAMPLE INFORMATION

Sample Number	VCP435318	VCP410447	VCP366532	VCP313913
Sample Date	13 Sep 2023	03 May 2023	14 Sep 2022	16 Sep 2021
Machine Hours	4975	4383	3541	2086
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	N/A	Not Changd
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	42.0	49.2	40.4	41.5
Acid Number (AN)	mg KOH/g	0.40	0.37	0.37	0.534



CONTAMINATION

Particles >4µm		3907	2489	---	905
Particles >6µm		961	641	---	124
Particles >14µm		38	32	---	7
ISO 4406:1999 (c)		19/17/12	18/17/12	---	17/14/10
Silicon	ppm	5	6	12	7
Sodium	ppm	1	2	2	2
Potassium	ppm	0	3	<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	9	8	11	7
Copper	ppm	3	3	4	3
Lead	ppm	2	3	3	5
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	0	2	3	1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	0	0	<1	0
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	58	54	54	58
Magnesium	ppm	<1	2	3	1
Zinc	ppm	423	463	440	429
Phosphorus	ppm	337	355	336	335
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	6

Depot: VOLVO8769
Unique No: 10662396
Signed: Wes Davis
Report Date: 27 Sep 2023

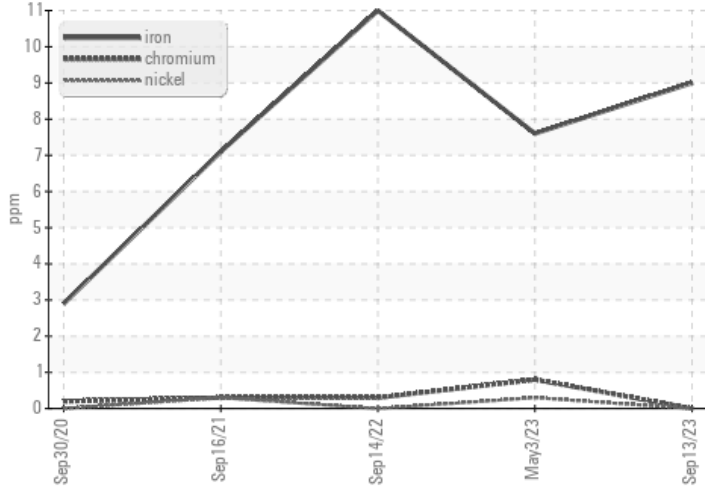


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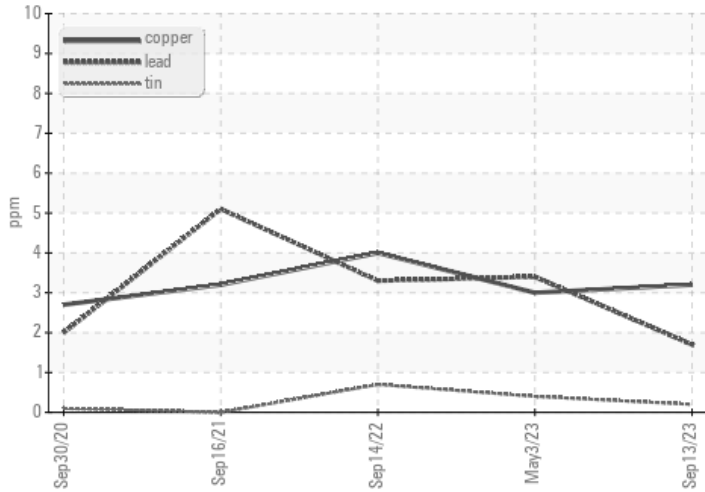


GRAPHS

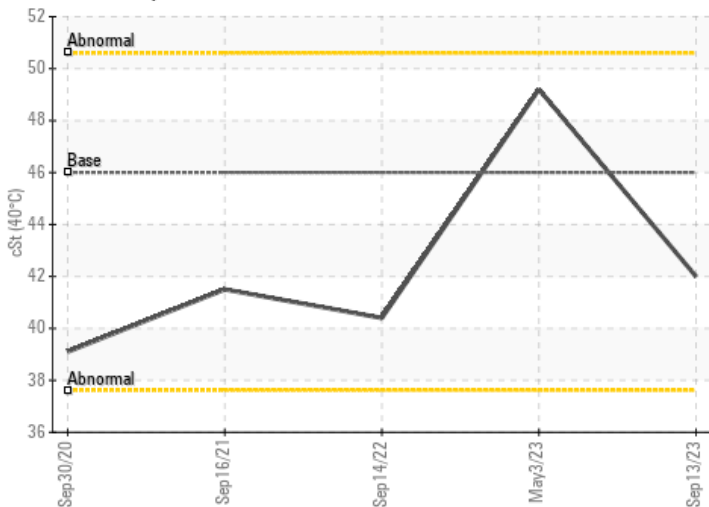
Ferrous Alloys



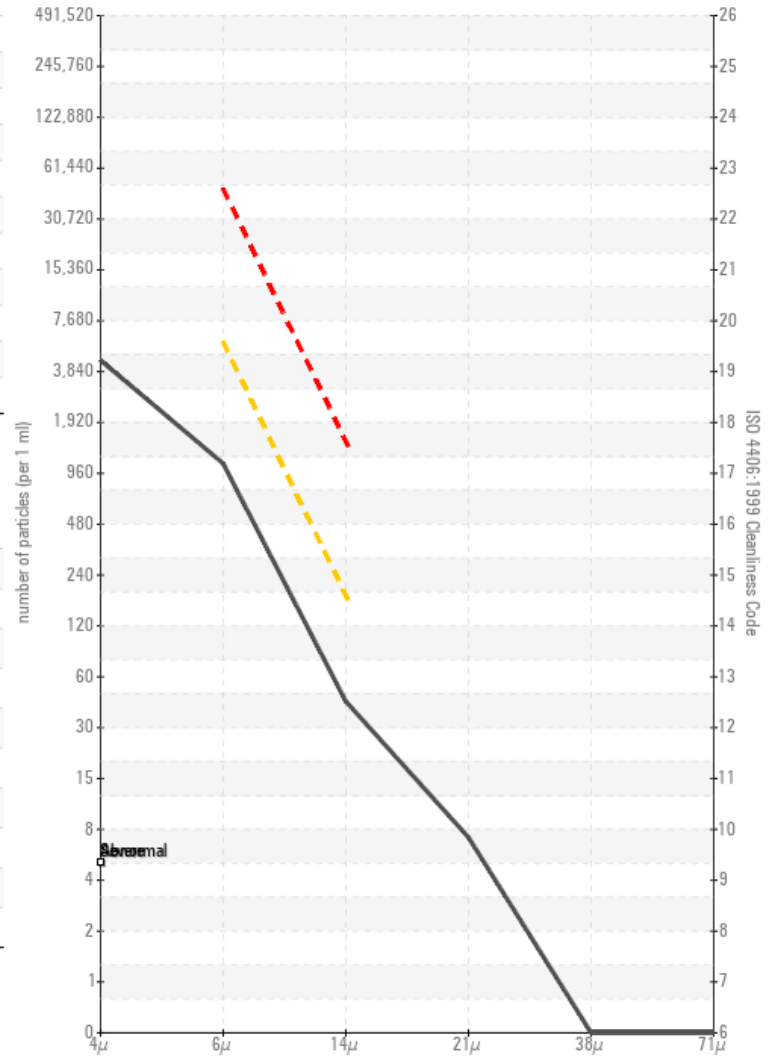
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

