



CONSTRUCTION EQUIPMENT

590811 ASH GROVE VOLVO A40G 353375 - HYDRAULIC SYSTEM



Sample No: VCP447374
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 590811 ASH GROVE



SAMPLE INFORMATION

Sample Number	VCP447374	VCP449546	VCP432677	VCP417713
Sample Date	19 Jun 2024	18 Apr 2024	07 Sep 2023	14 Jul 2023
Machine Hours	4960	4458	2328	1524
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	43.4	42.9	42.9	42.9
Acid Number (AN)	mg KOH/g	0.37	0.39	0.37	0.47



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		5748	4029	14436	3596
Particles >6µm		1371	836	3684	702
Particles >14µm		45	46	105	36
ISO 4406:1999 (c)		20/18/13	19/17/13	21/19/14	19/17/12
Silicon	ppm	5	4	5	4
Sodium	ppm	2	<1	3	0
Potassium	ppm	2	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.



WEAR METALS

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



ADDITIVES

Calcium	ppm	71	63	60	71
Magnesium	ppm	1	0	2	<1
Zinc	ppm	447	429	450	430
Phosphorus	ppm	349	313	341	317
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: VOLVO0096
Unique No: 11096294
Signed: Wes Davis
Report Date: 25 Jun 2024

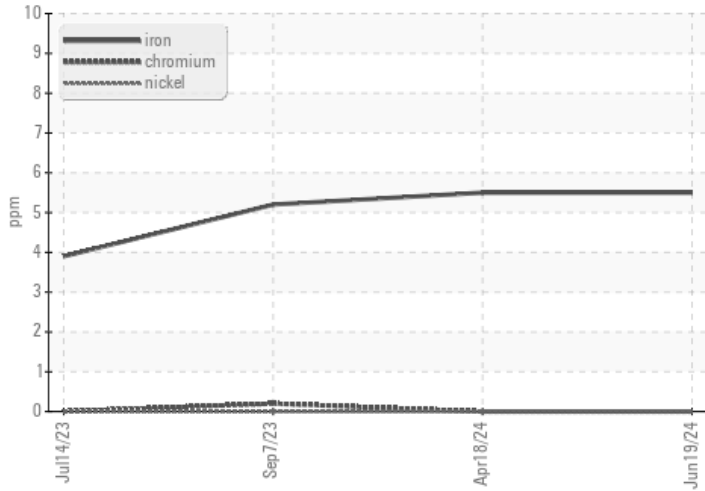


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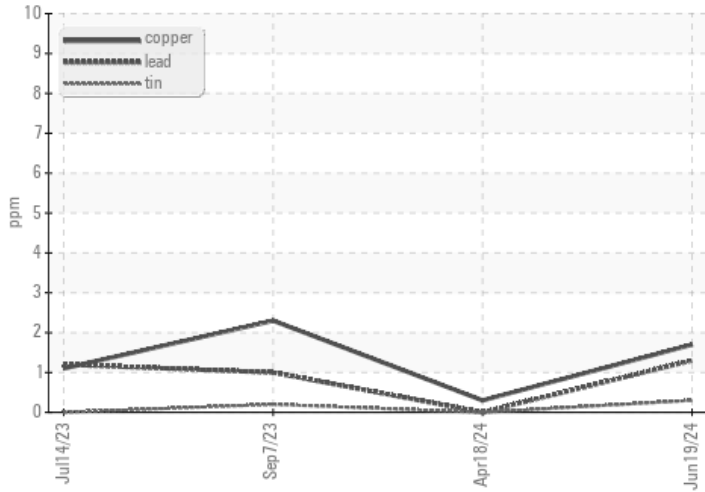


GRAPHS

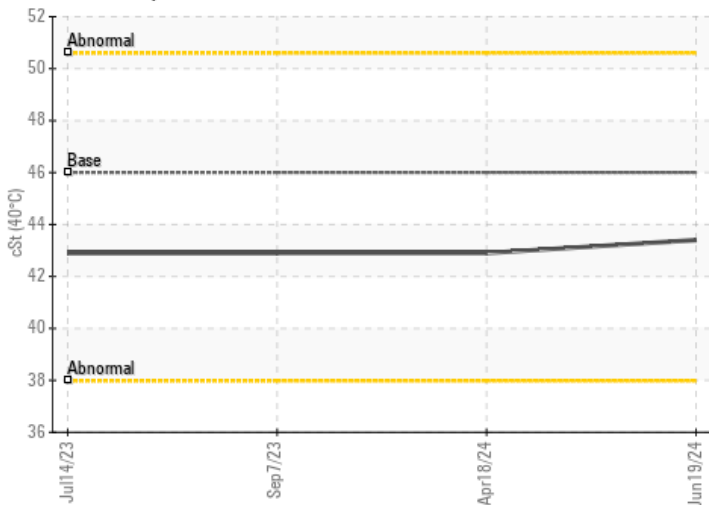
Ferrous Alloys



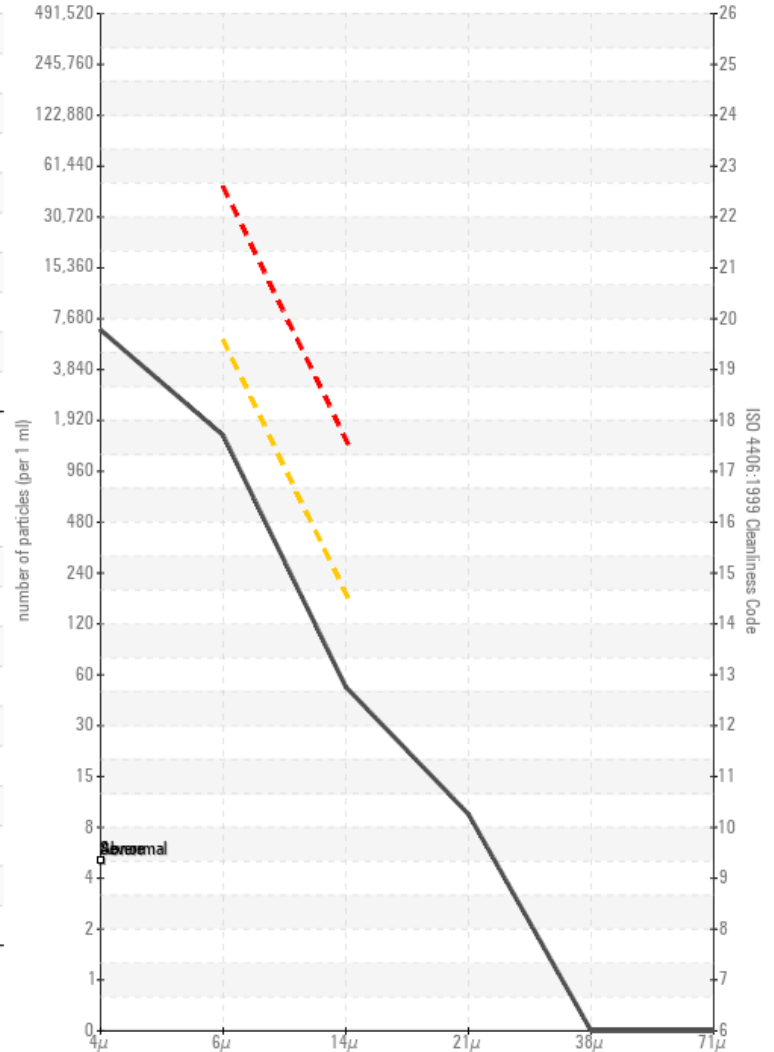
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

