



CONSTRUCTION EQUIPMENT

SWO-071765 VOLVO A45G 342546 - HYDRAULIC SYSTEM



Sample No: VCP450901
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWO-071765



SAMPLE INFORMATION

Sample Number	VCP450901	VCP432931	VCP417741	VCP402220
Sample Date	07 May 2024	04 Oct 2023	19 Jun 2023	28 Feb 2023
Machine Hours	8542	8046	7553	7072
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC

4400 LEWISBURG RD
 BIRMINGHAM, AL
 US 35207

Contact: STEPHANI BRITTON
 sbritton@saiia.com;doug.bogart@wearcheck.com
 T: (205)943-2268
 F: (205)943-2269



OIL CONDITION

Visc @ 40°C	cSt	43.7	43.8	43.8	43.9
Acid Number (AN)	mg KOH/g	0.42	0.32	0.41	0.42



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		4348	877	523	2241
Particles >6µm		1109	261	152	717
Particles >14µm		95	22	22	28
ISO 4406:1999 (c)		19/17/14	17/15/12	16/14/12	18/17/12
Silicon	ppm	4	3	3	3
Sodium	ppm	0	2	1	0
Potassium	ppm	1	0	<1	1

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

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



ADDITIVES

Calcium	ppm	92	86	80	157
Magnesium	ppm	10	10	6	11
Zinc	ppm	452	450	479	474
Phosphorus	ppm	357	343	365	348
Barium	ppm	0	0	0	<1
Boron	ppm	0	<1	0	<1

Depot: SAIBIR
Unique No: 11021457
Signed: Don Baldrige
Report Date: 14 May 2024

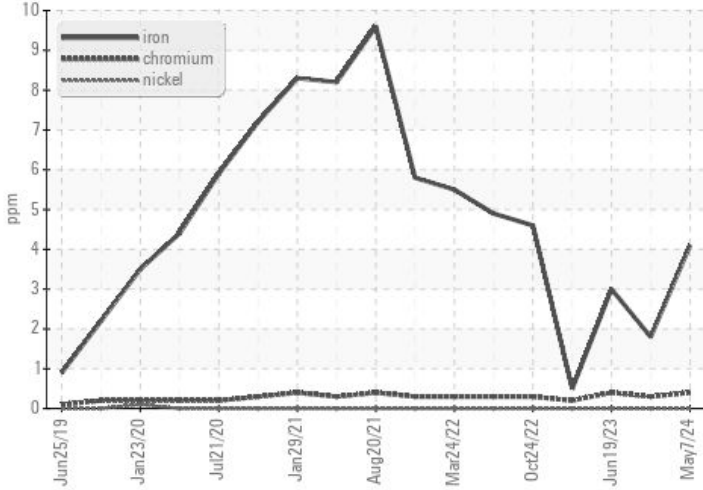


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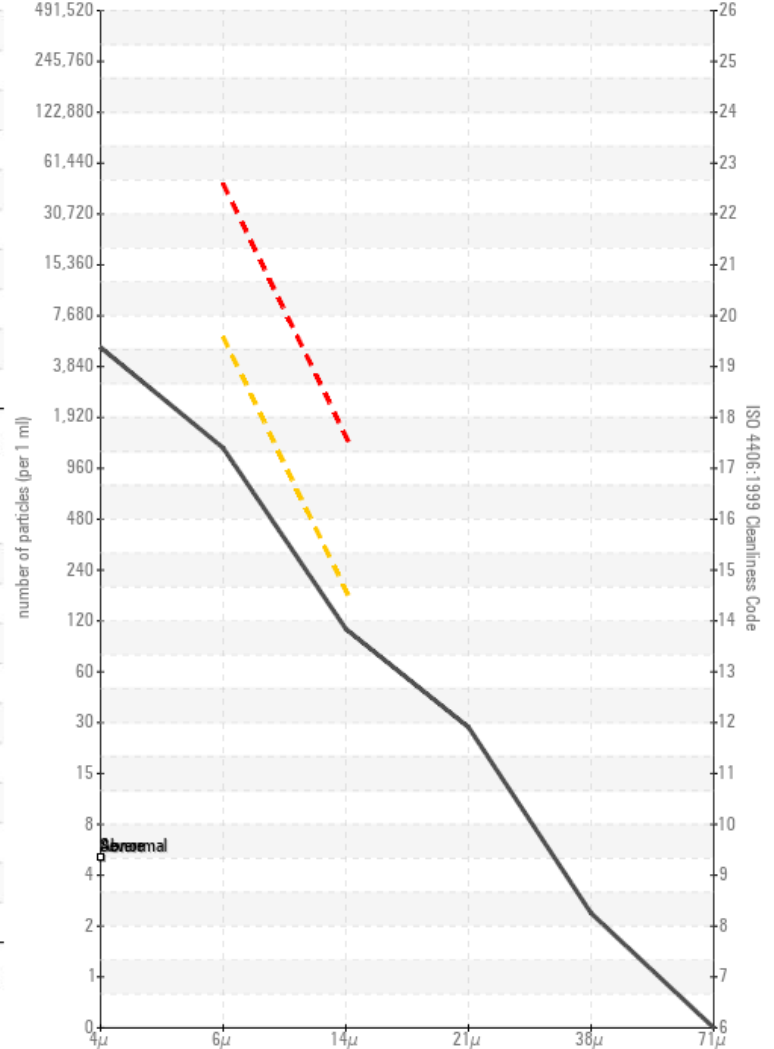


VOLVO GRAPHS

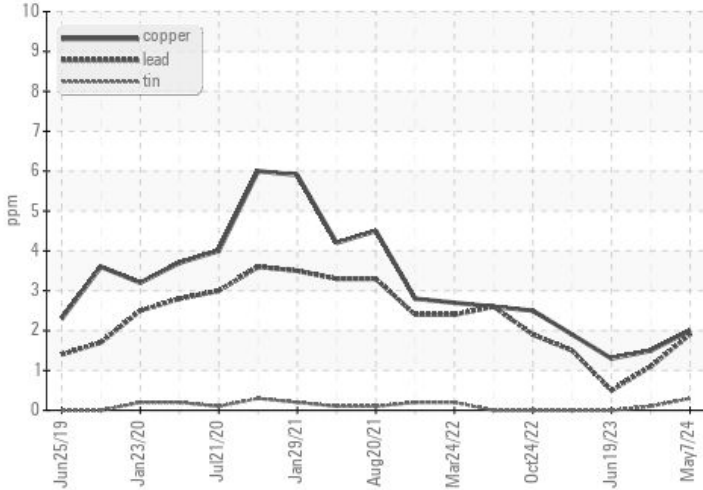
Ferrous Alloys



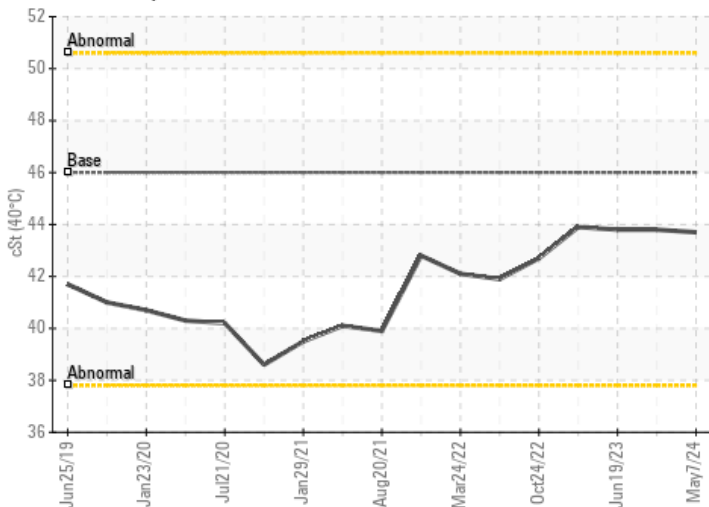
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

