



CONSTRUCTION EQUIPMENT

SWO-067654 VOLVO A45G 352708 - HYDRAULIC SYSTEM



Sample No: VCP431063
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-067654



SAMPLE INFORMATION

Sample Number	VCP431063	VCP428984	VCP424604	VCP402462
Sample Date	20 Nov 2023	11 Sep 2023	06 Jul 2023	24 Mar 2023
Machine Hours	4925	4418	3920	3429
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
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	45.0	44.5	44.4	43.9
Acid Number (AN)	mg KOH/g	0.42	0.38	0.31	0.31



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		3490	1620	281	2527
Particles >6µm		1188	395	94	704
Particles >14µm		94	24	11	62
ISO 4406:1999 (c)		19/17/14	18/16/12	15/14/11	19/17/13
Silicon	ppm	6	6	6	6
Sodium	ppm	0	<1	0	1
Potassium	ppm	2	<1	<1	0

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	5	9	5
Copper	ppm	5	6	2	7
Lead	ppm	1	2	3	3
Tin	ppm	0	0	<1	0
Aluminum	ppm	2	2	2	1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	<1	0	<1	0
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	103	79	76	73
Magnesium	ppm	10	<1	0	1
Zinc	ppm	416	430	441	443
Phosphorus	ppm	316	354	326	334
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10755448
Signed: Jonathan Hester
Report Date: 28 Nov 2023

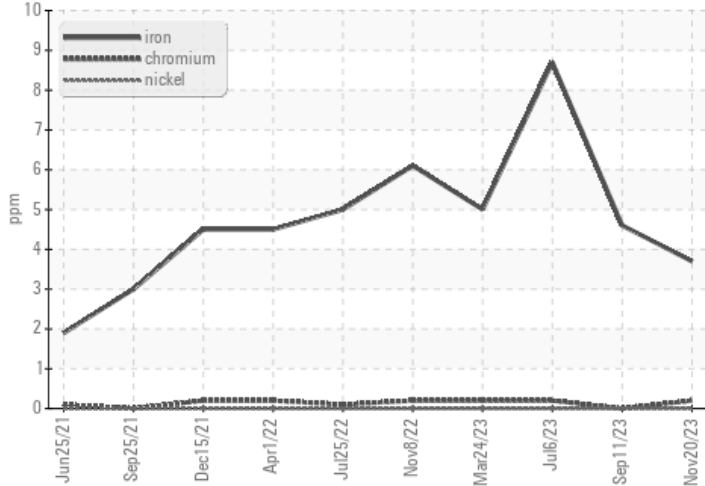


CONSTRUCTION EQUIPMENT

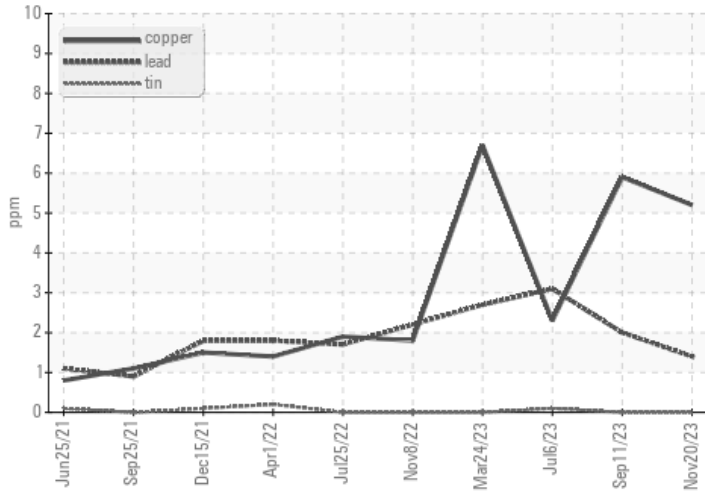


GRAPHS

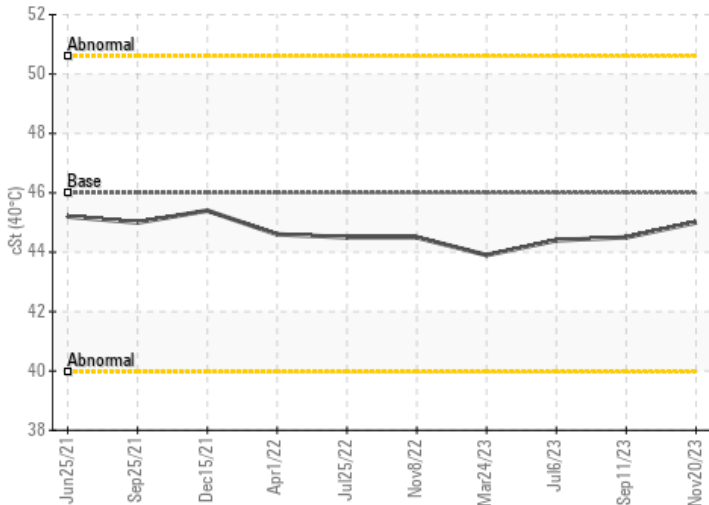
Ferrous Alloys



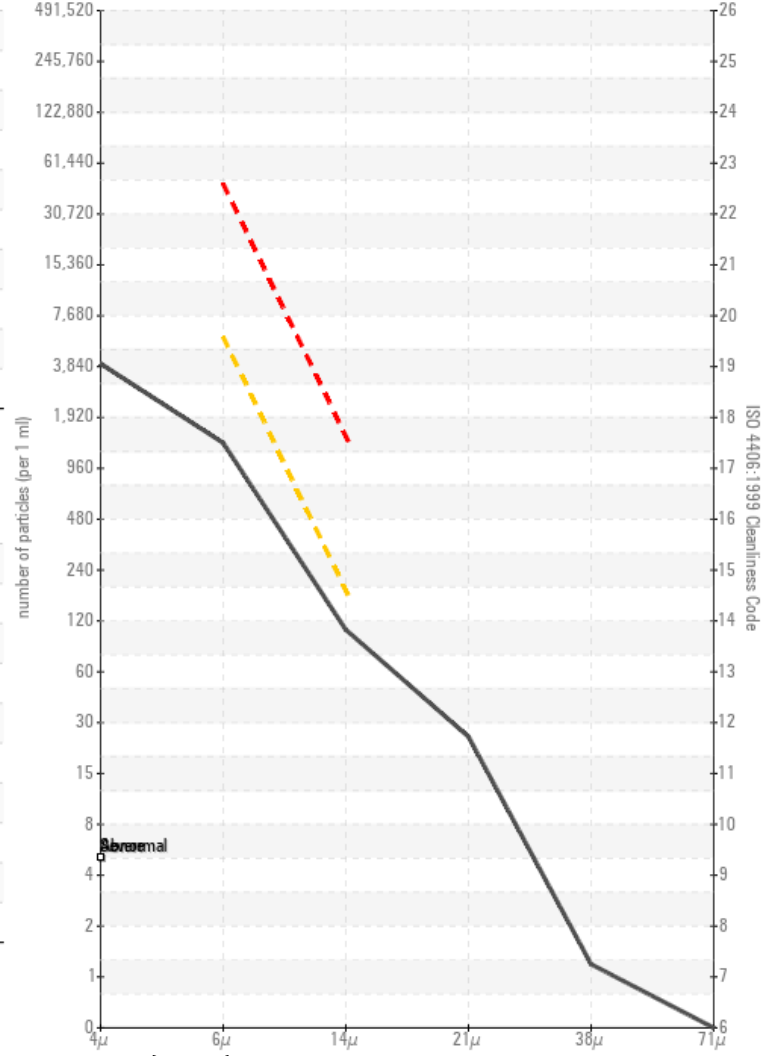
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

