



CONSTRUCTION EQUIPMENT

VOLVO A45G 342095 - HYDRAULIC SYSTEM



Sample No: VCP425091
Oil Type: AW HYDRAULIC OIL ISO 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP425091	VCP402769	VCP383835	VCP365241
Sample Date	26 Oct 2023	02 May 2023	13 Dec 2022	18 Aug 2022
Machine Hours	8727	7961	7510	6994
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	ATTENTION	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	43.8	43.7	43.2
Acid Number (AN)	mg KOH/g	0.50	0.43	0.48	0.49

CONTAMINATION

Particles >4µm		40104	1419	4262	8001
Particles >6µm		6734	334	1142	1843
Particles >14µm		171	59	28	76
ISO 4406:1999 (c)		23/20/15	18/16/13	19/17/12	20/18/13
Silicon	ppm	7	6	5	6
Sodium	ppm	3	4	<1	2
Potassium	ppm	<1	<1	<1	0

Diagnosis
 No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

WEAR METALS

Iron	ppm	11	6	5	7
Copper	ppm	4	4	3	4
Lead	ppm	3	0	2	3
Tin	ppm	0	0	<1	0
Aluminum	ppm	3	1	2	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	1	3	4	<1
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	0

ADDITIVES

Calcium	ppm	390	371	378	613
Magnesium	ppm	16	17	15	6
Zinc	ppm	548	530	536	595
Phosphorus	ppm	434	417	393	457
Barium	ppm	0	0	0	<1
Boron	ppm	0	3	3	<1

Depot: SAIBIR
Unique No: 10728820
Signed: Don Baldrige
Report Date: 09 Nov 2023

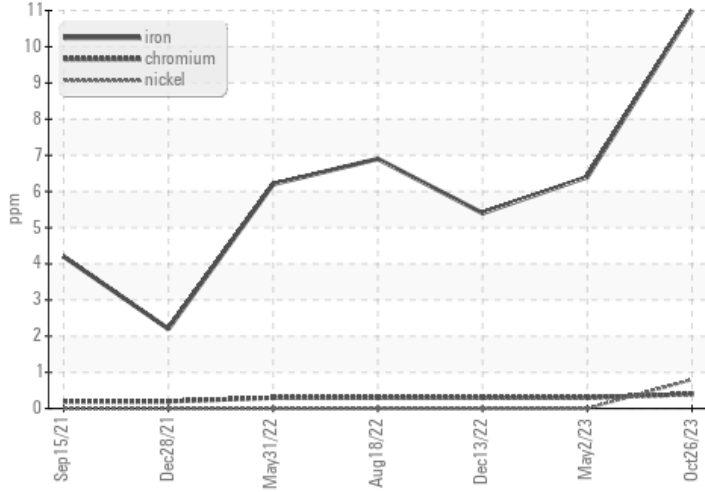


CONSTRUCTION EQUIPMENT

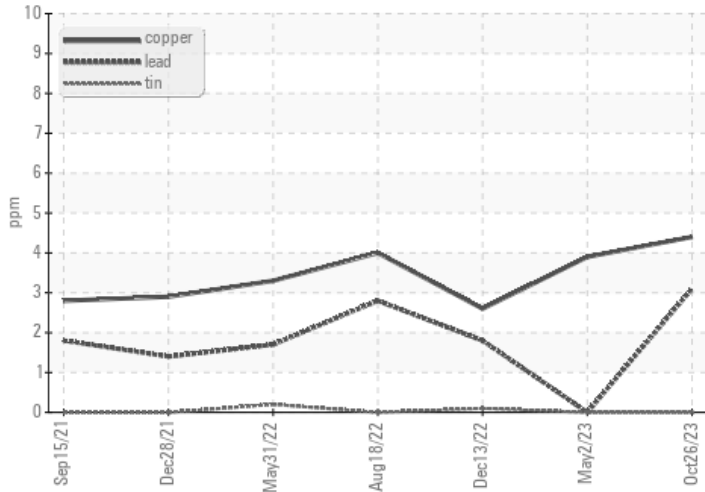


GRAPHS

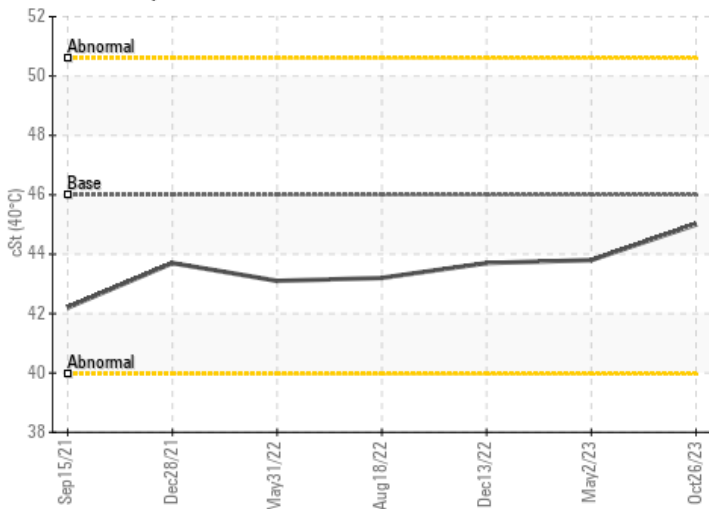
Ferrous Alloys



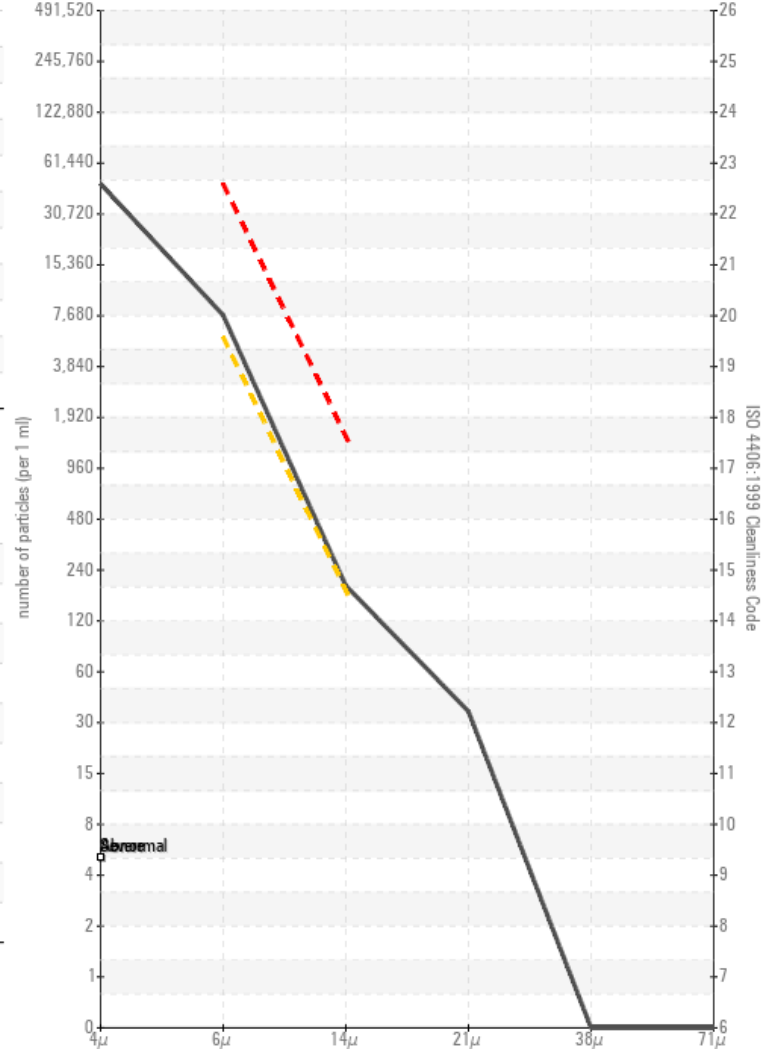
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

