



CONSTRUCTION EQUIPMENT

VOLVO A45G 352134 - HYDRAULIC SYSTEM



Sample No: VCP431055
Oil Type: AW HYDRAULIC OIL ISO 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP431055	VCP431902	VCP416411	VCP414242
Sample Date	22 Nov 2023	26 Sep 2023	31 Jul 2023	31 May 2023
Machine Hours	8724	8228	7719	7234
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	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	44.9	45.8	46.0	45.1
Acid Number (AN)	mg KOH/g	0.43	0.38	0.40	0.32

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		1694	1231	3874	3860
Particles >6µm		264	197	908	1084
Particles >14µm		14	19	27	21
ISO 4406:1999 (c)		18/15/11	17/15/11	19/17/12	19/17/12
Silicon	ppm	3	4	4	4
Sodium	ppm	0	<1	2	<1
Potassium	ppm	1	0	<1	<1

Diagnosis
 Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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	5	7	7	7
Copper	ppm	2	2	4	3
Lead	ppm	<1	0	0	0
Tin	ppm	0	<1	0	<1
Aluminum	ppm	1	2	1	2
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	1	0	<1	1
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	124	132	121	129
Magnesium	ppm	50	16	13	15
Zinc	ppm	484	471	451	481
Phosphorus	ppm	380	349	328	357
Barium	ppm	0	<1	0	2
Boron	ppm	1	0	0	0

Depot: SAIBIR
Unique No: 10766015
Signed: Don Baldrige
Report Date: 04 Dec 2023

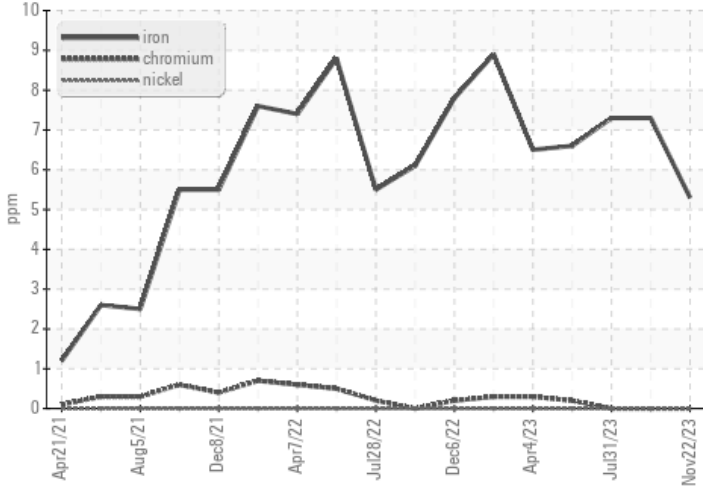


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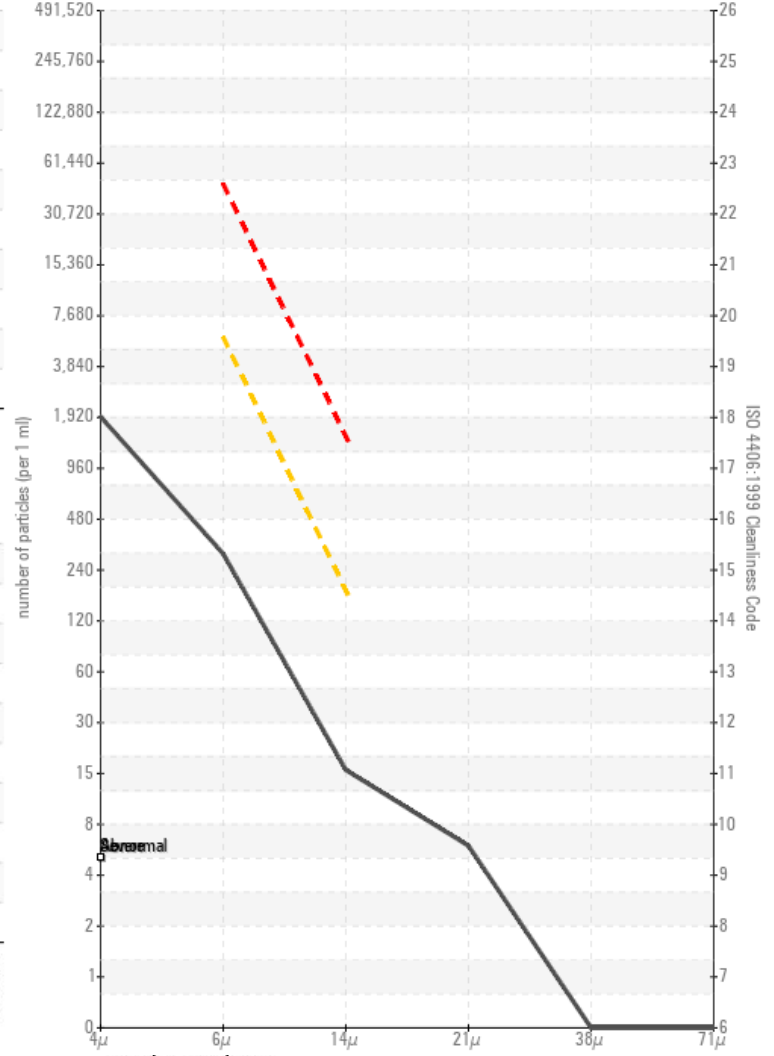


GRAPHS

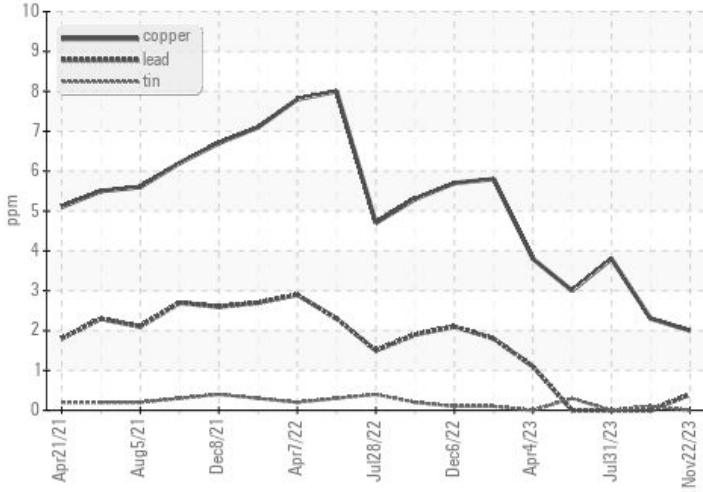
Ferrous Alloys



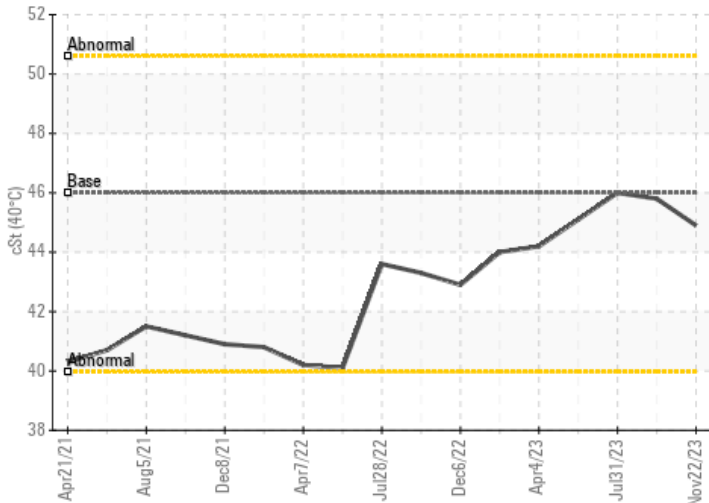
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

