



CONSTRUCTION EQUIPMENT

SWO-070856 VOLVO A45G 342096 - HYDRAULIC SYSTEM



Sample No: VCP438715
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWO-070856



SAMPLE INFORMATION

Sample Number	VCP438715	VCP431027	VCP427235	VCP404588
Sample Date	02 Apr 2024	13 Nov 2023	22 Aug 2023	08 May 2023
Machine Hours	10079	9583	9107	8608
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
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	50.2	49.8	50.4	51.6
Acid Number (AN)	mg KOH/g	0.50	0.44	0.54	0.43



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		9766	283	2058	3248
Particles >6µm		3184	22	651	926
Particles >14µm		274	5	33	50
ISO 4406:1999 (c)		20/19/15	15/12/10	18/17/12	19/17/13
Silicon	ppm	4	4	4	3
Sodium	ppm	3	<1	3	1
Potassium	ppm	<1	1	2	0

Diagnosis

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. 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	5	4	4	<1
Copper	ppm	1	3	2	2
Lead	ppm	1	2	2	1
Tin	ppm	<1	0	<1	0
Aluminum	ppm	4	2	1	<1
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	0	2	2	1
Nickel	ppm	0	<1	0	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	0
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	10	207	196	224
Magnesium	ppm	3	65	65	6
Zinc	ppm	136	581	567	538
Phosphorus	ppm	130	468	445	412
Barium	ppm	0	0	0	0
Boron	ppm	0	3	2	3

Depot: SAIBIR
Unique No: 10964666
Signed: Don Baldrige
Report Date: 08 Apr 2024

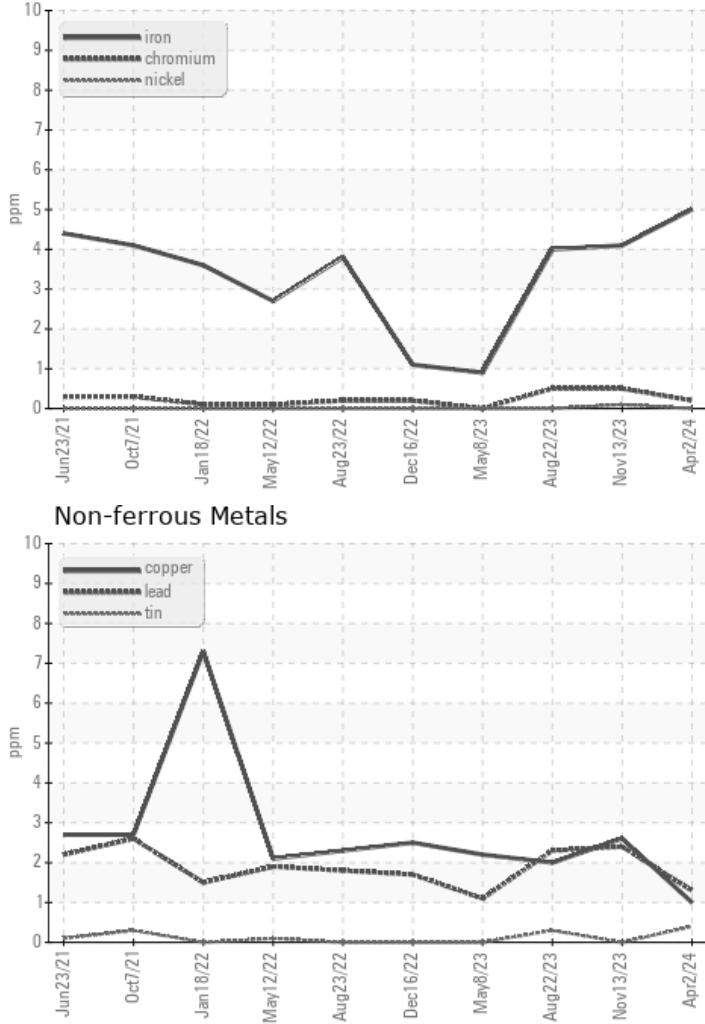


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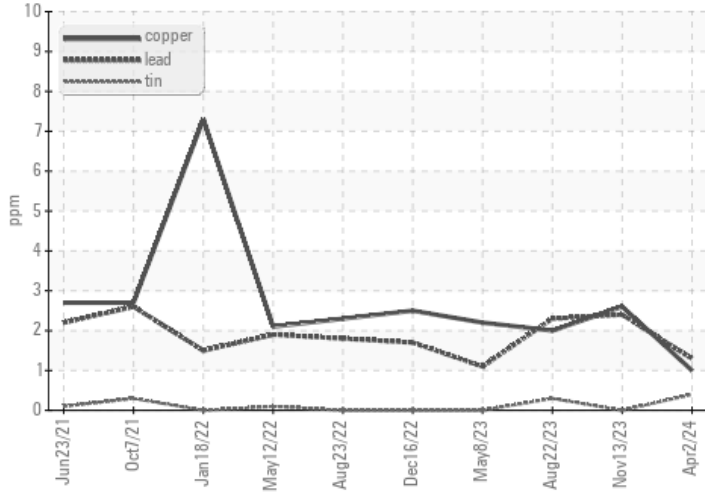


GRAPHS

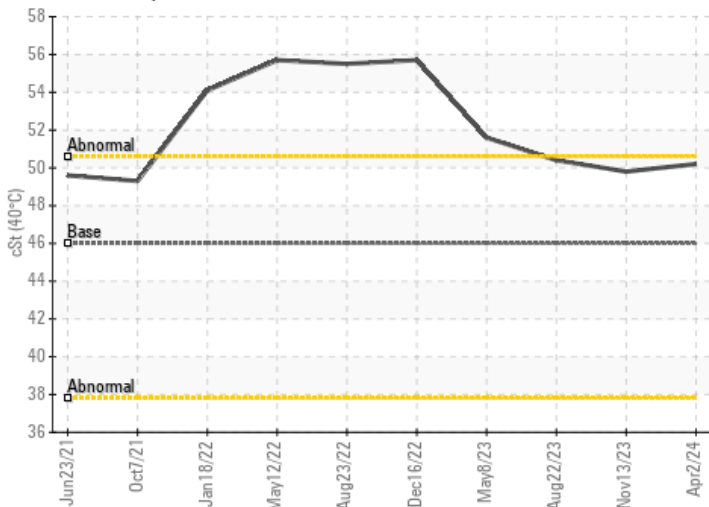
Ferrous Alloys



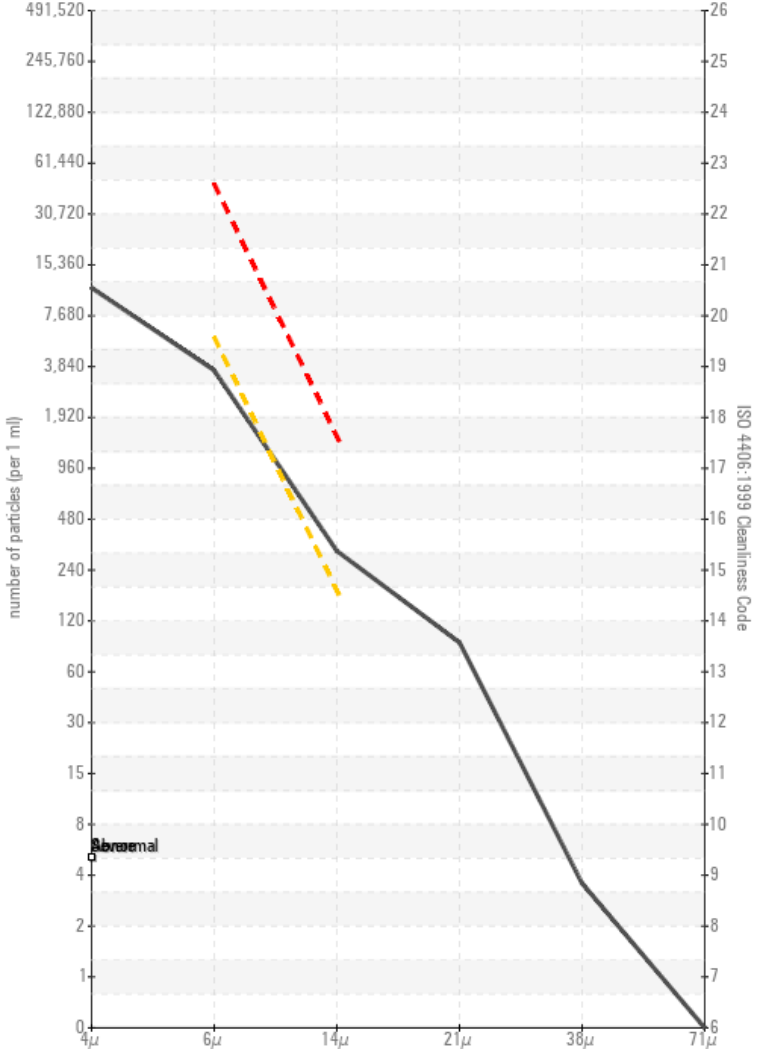
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

