



CONSTRUCTION EQUIPMENT

SWO-071570 VOLVO A40G 341023 - HYDRAULIC SYSTEM



Sample No: VCP453687
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-071570



SAMPLE INFORMATION

Sample Number	VCP453687	VCP447547	VCP428970	VCP408959
Sample Date	01 May 2024	27 Dec 2023	20 Sep 2023	13 Jun 2023
Machine Hours	9466	8960	8472	7952
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
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	44.5	44.0	44.7	44.5
Acid Number (AN)	mg KOH/g	0.52	0.52	0.53	0.35



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		3132	1432	3936	1366
Particles >6µm		828	283	1260	303
Particles >14µm		72	22	116	38
ISO 4406:1999 (c)		19/17/13	18/15/12	19/17/14	18/15/12
Silicon	ppm	2	2	2	3
Sodium	ppm	0	1	0	3
Potassium	ppm	0	0	2	<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	5	5	8
Copper	ppm	10	9	8	14
Lead	ppm	<1	<1	1	3
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	0	0	0	1
Chromium	ppm	<1	0	0	<1
Molybdenum	ppm	<1	<1	1	1
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	0	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	135	186	155	109
Magnesium	ppm	38	40	40	9
Zinc	ppm	589	635	663	461
Phosphorus	ppm	470	495	490	360
Barium	ppm	0	0	0	0
Boron	ppm	<1	1	0	0

Depot: SAIBIR
Unique No: 11019893
Signed: Don Baldrige
Report Date: 14 May 2024

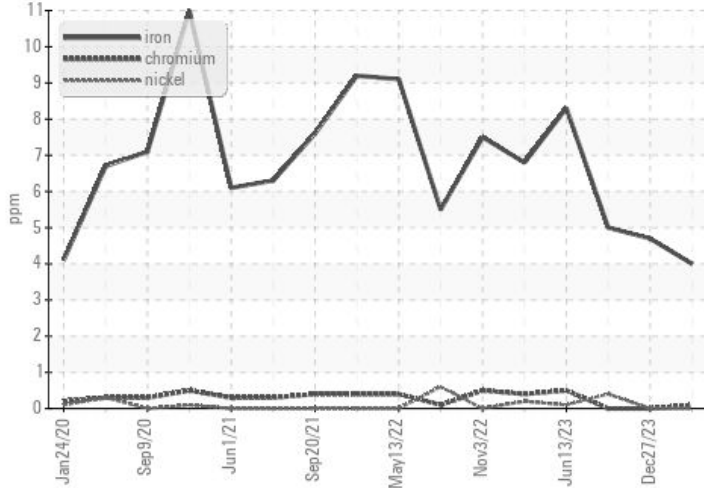


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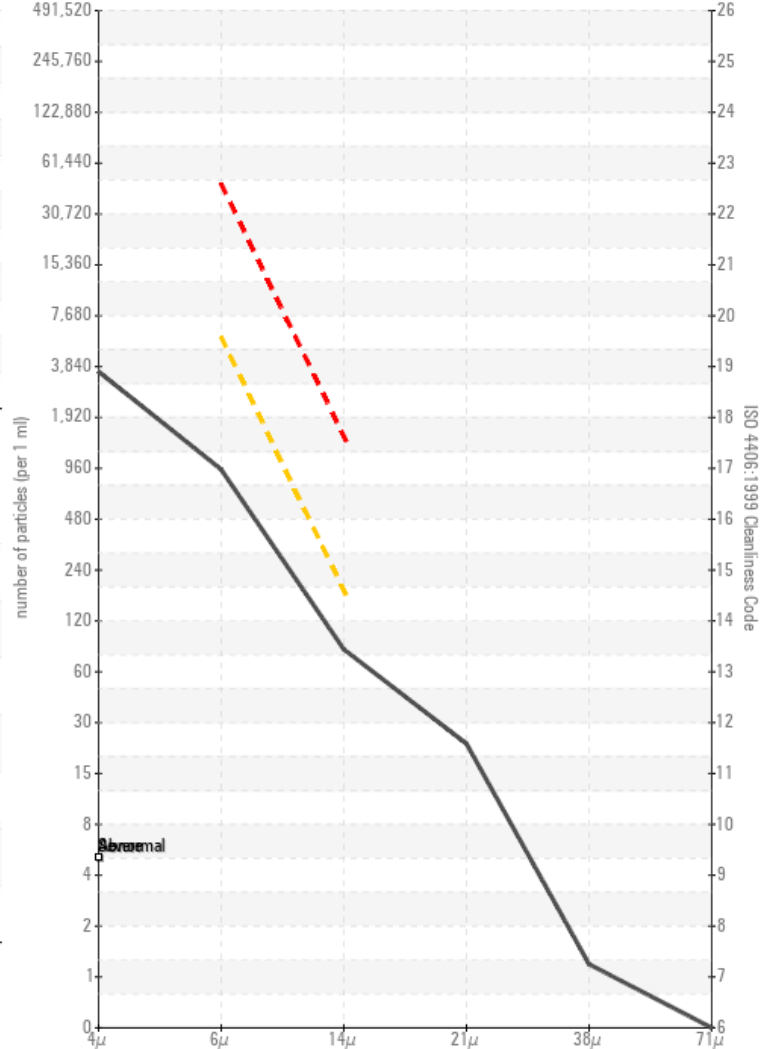


GRAPHS

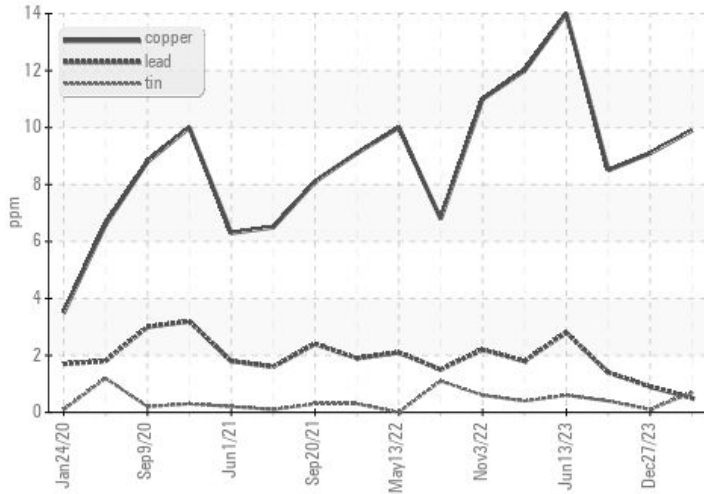
Ferrous Alloys



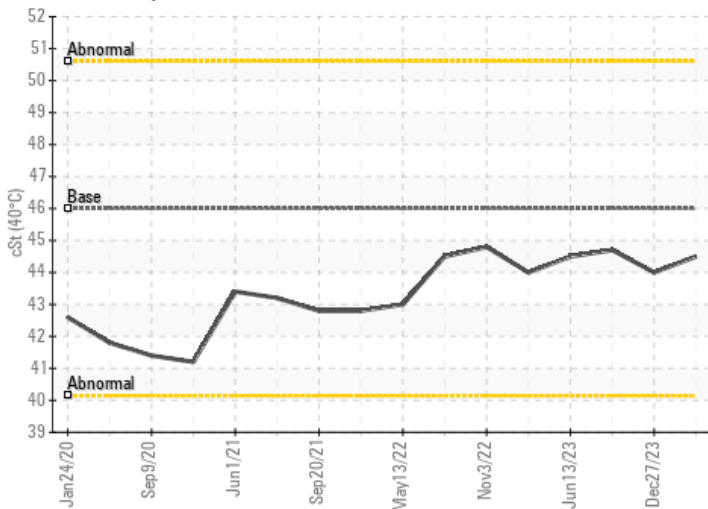
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

