



CONSTRUCTION EQUIPMENT

SWO-066004 VOLVO A45G 352769 - HYDRAULIC SYSTEM



Sample No: VCP433852
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-066004



SAMPLE INFORMATION

Sample Number	VCP433852	VCP416526	VCP401142	VCP383822
Sample Date	20 Sep 2023	21 Jun 2023	02 Mar 2023	05 Dec 2022
Machine Hours	4400	3875	3355	2886
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 40°C	cSt	44.4	44.6	45.2	44.5
Acid Number (AN)	mg KOH/g	0.46	0.34	0.34	0.32



CONTAMINATION

Particles >4µm		766	1001	1132	900
Particles >6µm		221	116	282	297
Particles >14µm		12	9	15	27
ISO 4406:1999 (c)		17/15/11	17/14/10	17/15/11	17/15/12
Silicon	ppm	6	7	6	5
Sodium	ppm	0	1	<1	<1
Potassium	ppm	1	0	<1	2

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	4	8	4	4
Copper	ppm	6	2	5	6
Lead	ppm	3	2	2	3
Tin	ppm	<1	0	0	<1
Aluminum	ppm	0	1	<1	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	55	55	53	47
Magnesium	ppm	6	0	1	2
Zinc	ppm	452	470	424	381
Phosphorus	ppm	339	354	312	323
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	<1

Depot: SAIBIR
Unique No: 10660962
Signed: Don Baldrige
Report Date: 26 Sep 2023

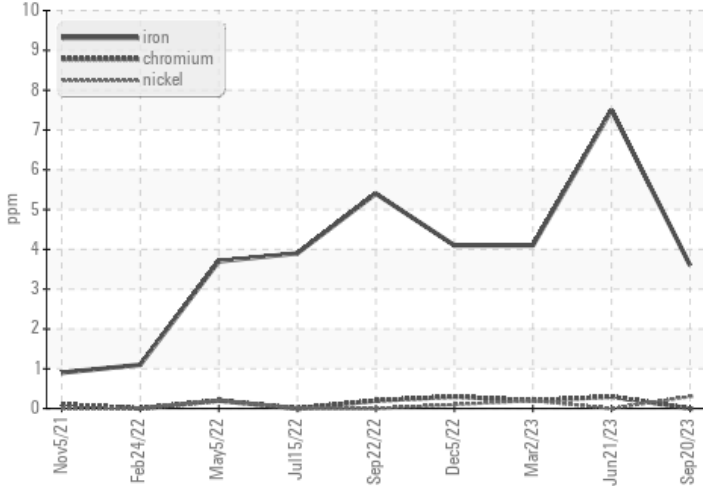


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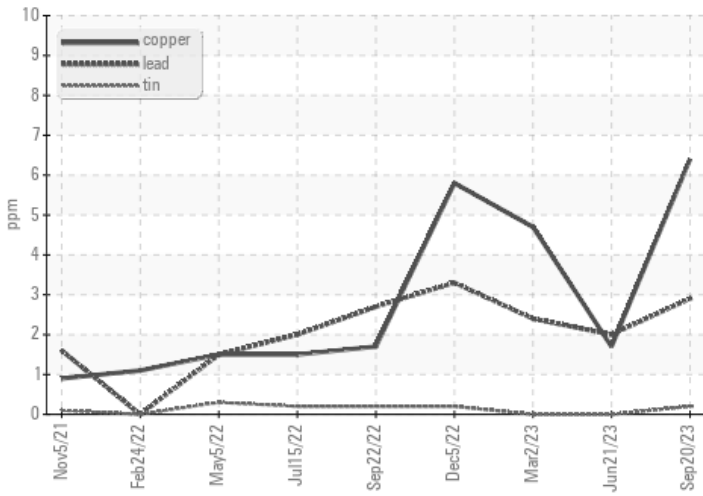


GRAPHS

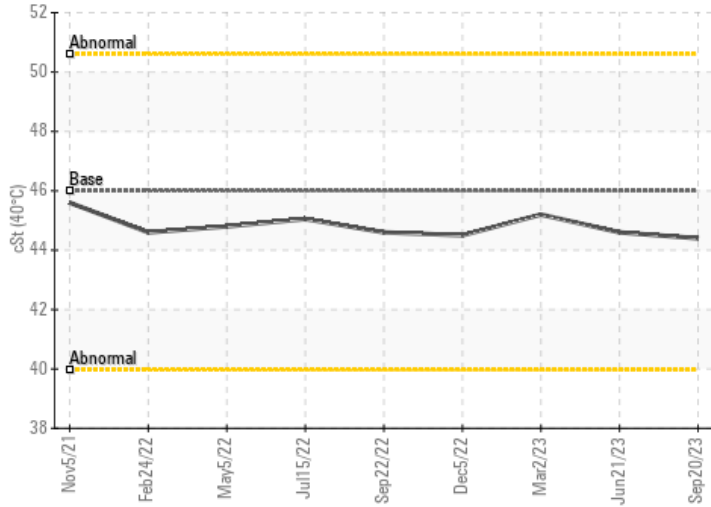
Ferrous Alloys



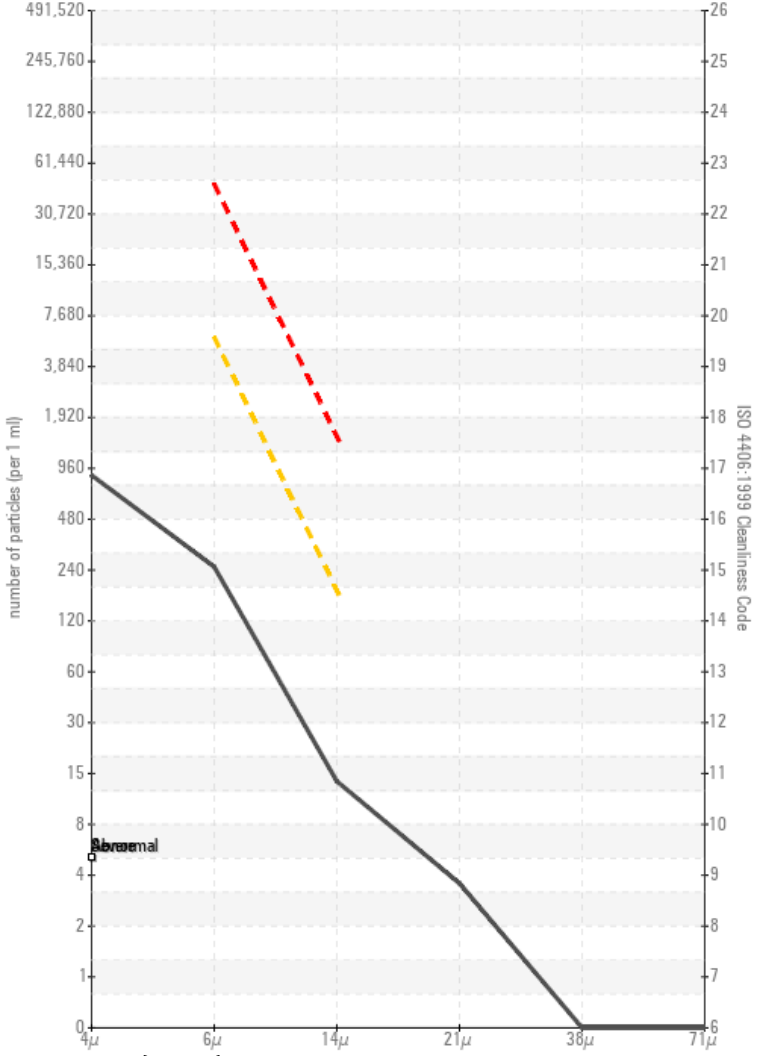
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

