



CONSTRUCTION EQUIPMENT

SWO-070936 VOLVO A45G 352708 - HYDRAULIC SYSTEM



Sample No: VCP436284
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-070936



SAMPLE INFORMATION

Sample Number	VCP436284	VCP431063	VCP428984	VCP424604
Sample Date	04 Apr 2024	20 Nov 2023	11 Sep 2023	06 Jul 2023
Machine Hours	5405	4925	4418	3920
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 40°C	cSt	45.4	45.0	44.5	44.4
Acid Number (AN)	mg KOH/g	0.42	0.42	0.38	0.31



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		2192	3490	1620	281
Particles >6µm		431	1188	395	94
Particles >14µm		21	94	24	11
ISO 4406:1999 (c)		18/16/12	19/17/14	18/16/12	15/14/11
Silicon	ppm	4	6	6	6
Sodium	ppm	<1	0	<1	0
Potassium	ppm	0	2	<1	<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	4	5	9
Copper	ppm	2	5	6	2
Lead	ppm	<1	1	2	3
Tin	ppm	<1	0	0	<1
Aluminum	ppm	<1	2	2	2
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	<1	<1	0	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	0	0
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	126	103	79	76
Magnesium	ppm	11	10	<1	0
Zinc	ppm	436	416	430	441
Phosphorus	ppm	341	316	354	326
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10967792
Signed: Jonathan Hester
Report Date: 11 Apr 2024

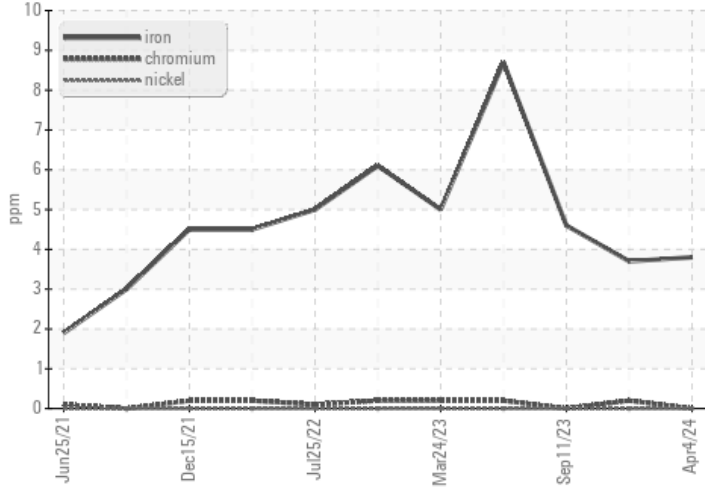


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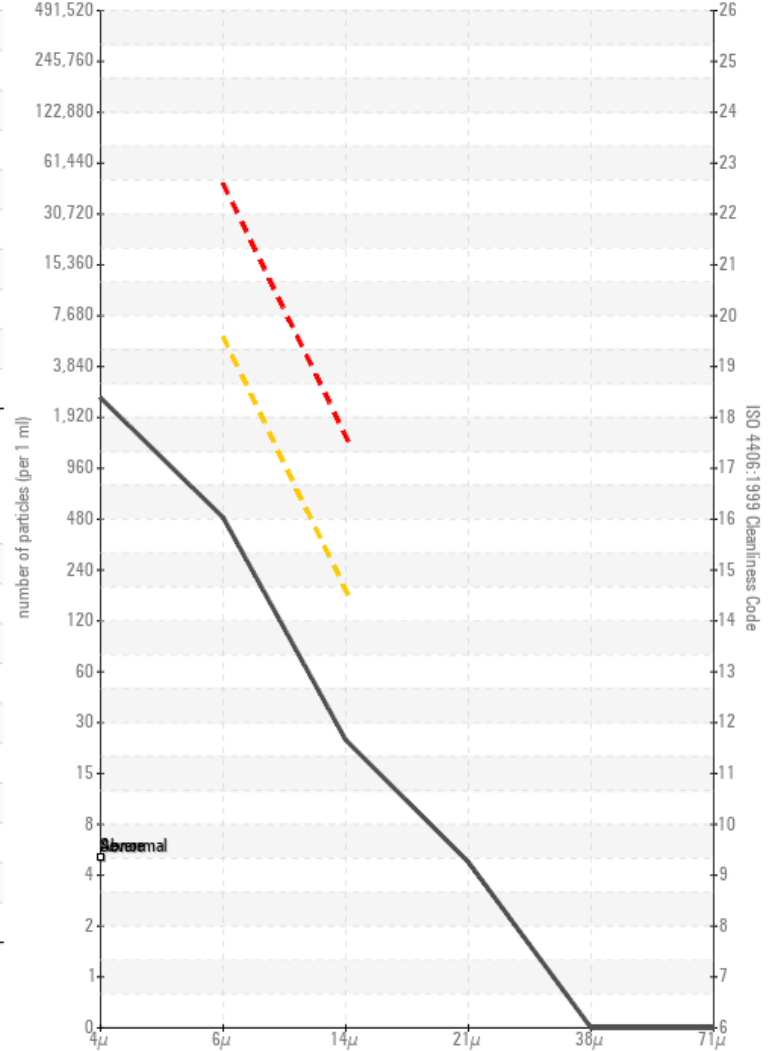


GRAPHS

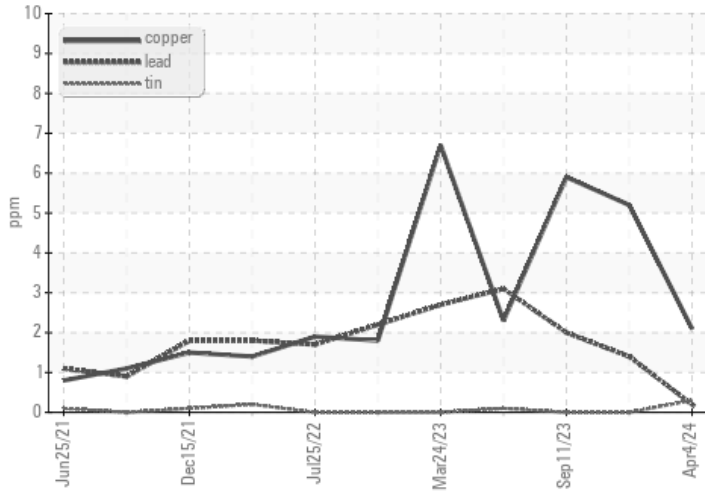
Ferrous Alloys



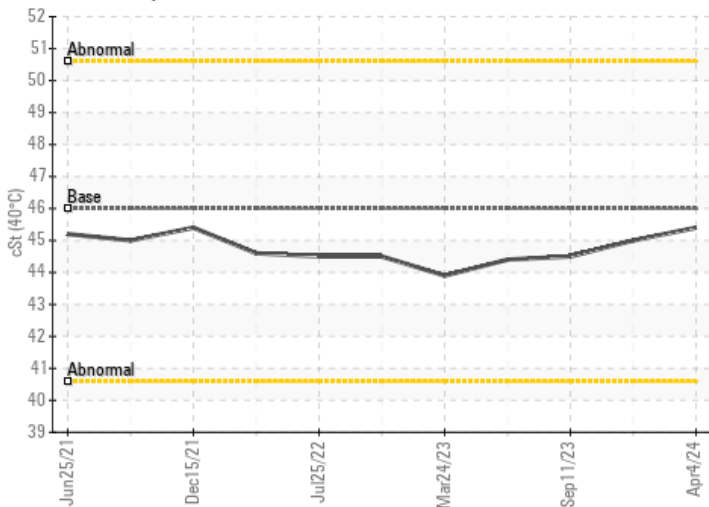
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

