



CONSTRUCTION EQUIPMENT

SWO-063484 VOLVO EC250E 310275 - HYDRAULIC SYSTEM



Sample No: VCP408945
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-063484



SAMPLE INFORMATION

Sample Number	VCP408945	VCP395260	VCP381249	VCP348539
Sample Date	23 Jun 2023	17 Feb 2023	18 Oct 2022	11 Jul 2022
Machine Hours	7550	7053	6547	6206
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 40°C	cSt	46.7	45.2	46.1	47.2
Acid Number (AN)	mg KOH/g	0.51	0.42	0.54	0.52



CONTAMINATION

Particles >4µm		31127	1707	17104	10873
Particles >6µm		5244	413	887	954
Particles >14µm		201	81	26	30
ISO 4406:1999 (c)		22/20/15	18/16/14	21/17/12	21/17/12
Silicon	ppm	5	6	5	3
Sodium	ppm	2	2	0	7
Potassium	ppm	2	0	1	0

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	13	11	13	8
Copper	ppm	4	4	7	6
Lead	ppm	<1	0	0	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	2	4	3	2
Chromium	ppm	12	12	12	8
Molybdenum	ppm	2	2	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	109	102	165	166
Magnesium	ppm	10	5	4	4
Zinc	ppm	543	424	516	519
Phosphorus	ppm	412	330	372	402
Barium	ppm	<1	0	0	0
Boron	ppm	0	0	2	0

Depot: SAIBIR
Unique No: 10536042
Signed: Angela Borella
Report Date: 30 Jun 2023

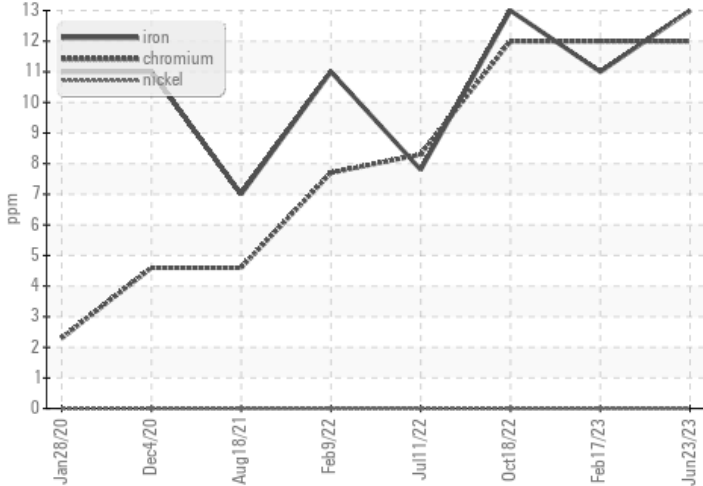


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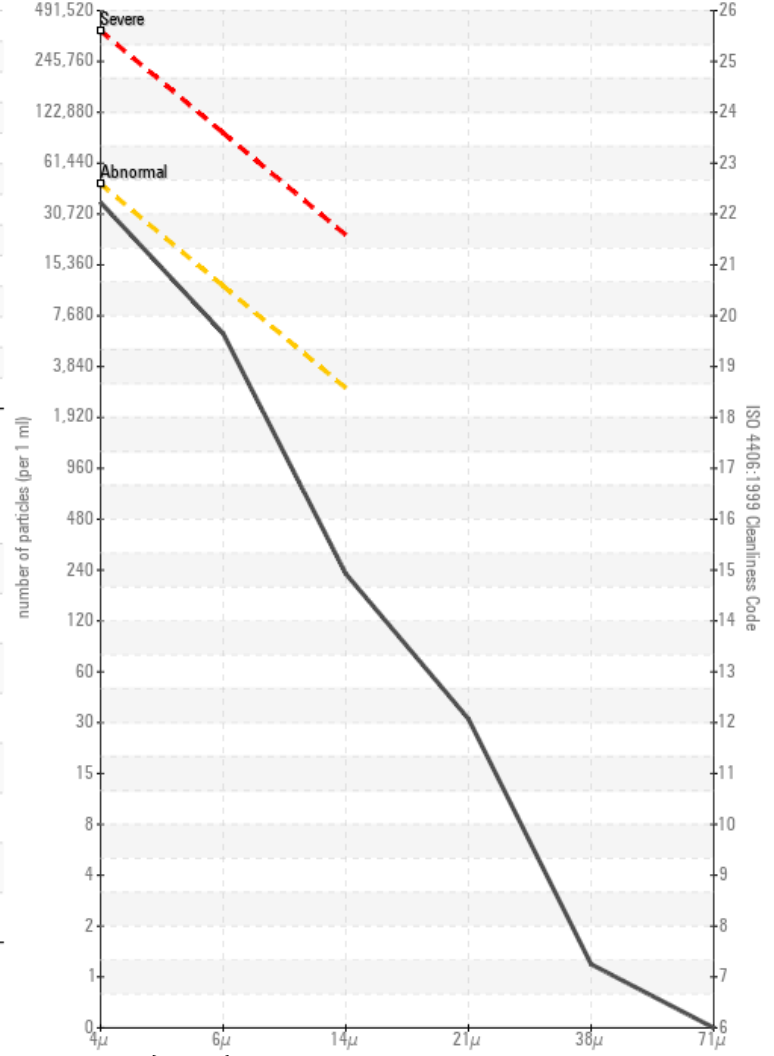


VOLVO GRAPHS

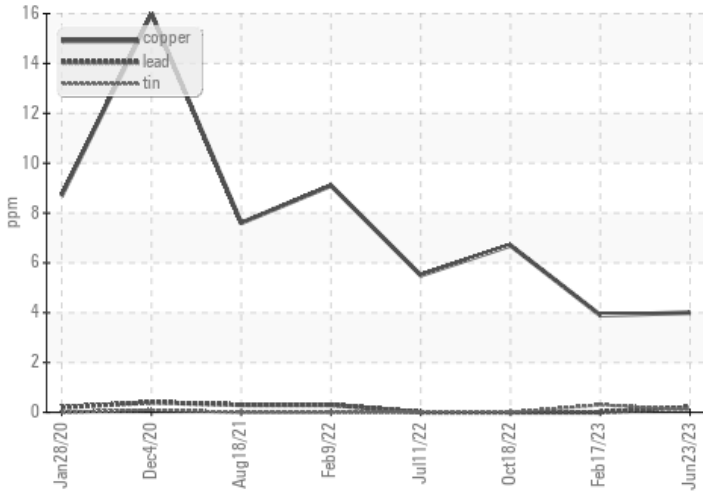
Ferrous Alloys



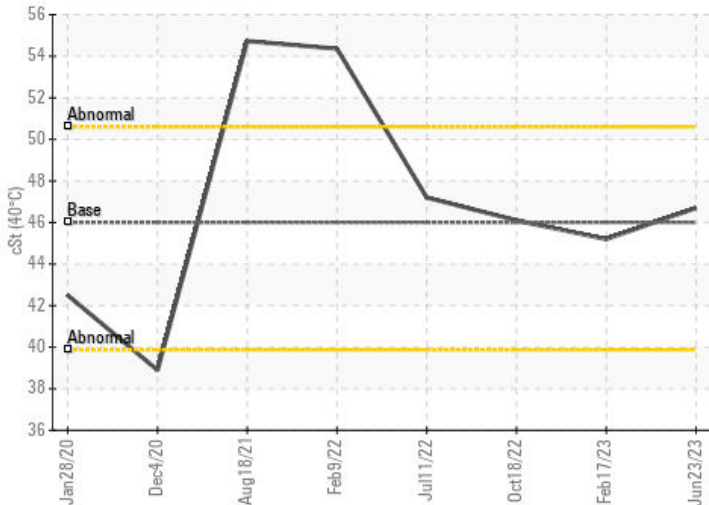
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

