



CONSTRUCTION EQUIPMENT

SWO-065667 VOLVO A45G 352708 - HYDRAULIC SYSTEM



Sample No: VCP428984
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-065667



SAMPLE INFORMATION

Sample Number	VCP428984	VCP424604	VCP402462	VCP369290
Sample Date	11 Sep 2023	06 Jul 2023	24 Mar 2023	08 Nov 2022
Machine Hours	4418	3920	3429	2956
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	44.5	44.4	43.9	44.5
Acid Number (AN)	mg KOH/g	0.38	0.31	0.31	0.40

CONTAMINATION

Particles >4µm		1620	281	2527	1756
Particles >6µm		395	94	704	285
Particles >14µm		24	11	62	23
ISO 4406:1999 (c)		18/16/12	15/14/11	19/17/13	18/15/12
Silicon	ppm	6	6	6	5
Sodium	ppm	<1	0	1	<1
Potassium	ppm	<1	<1	0	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	5	9	5	6
Copper	ppm	6	2	7	2
Lead	ppm	2	3	3	2
Tin	ppm	0	<1	0	0
Aluminum	ppm	2	2	1	<1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	0	<1	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	79	76	73	75
Magnesium	ppm	<1	0	1	0
Zinc	ppm	430	441	443	392
Phosphorus	ppm	354	326	334	330
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10647275
Signed: Don Baldrige
Report Date: 19 Sep 2023

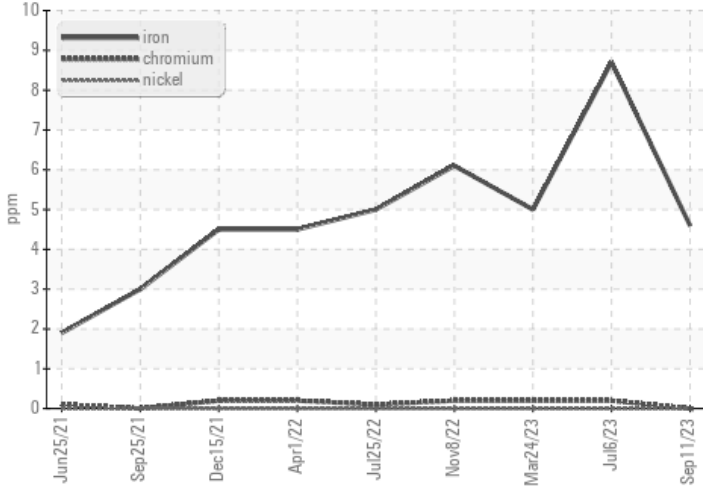


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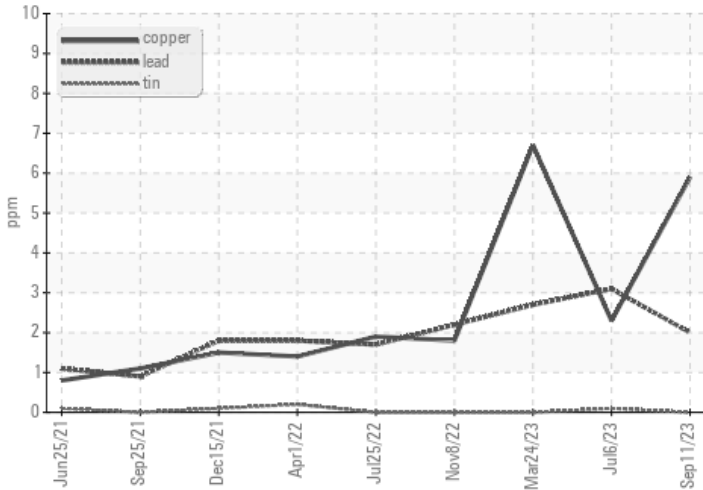


GRAPHS

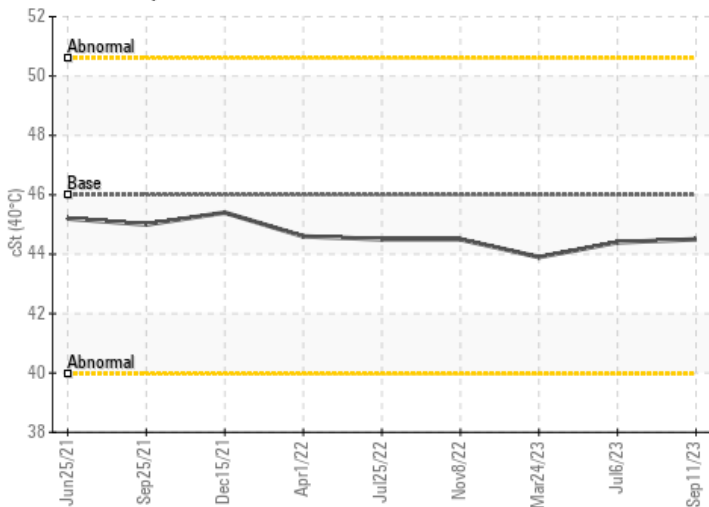
Ferrous Alloys



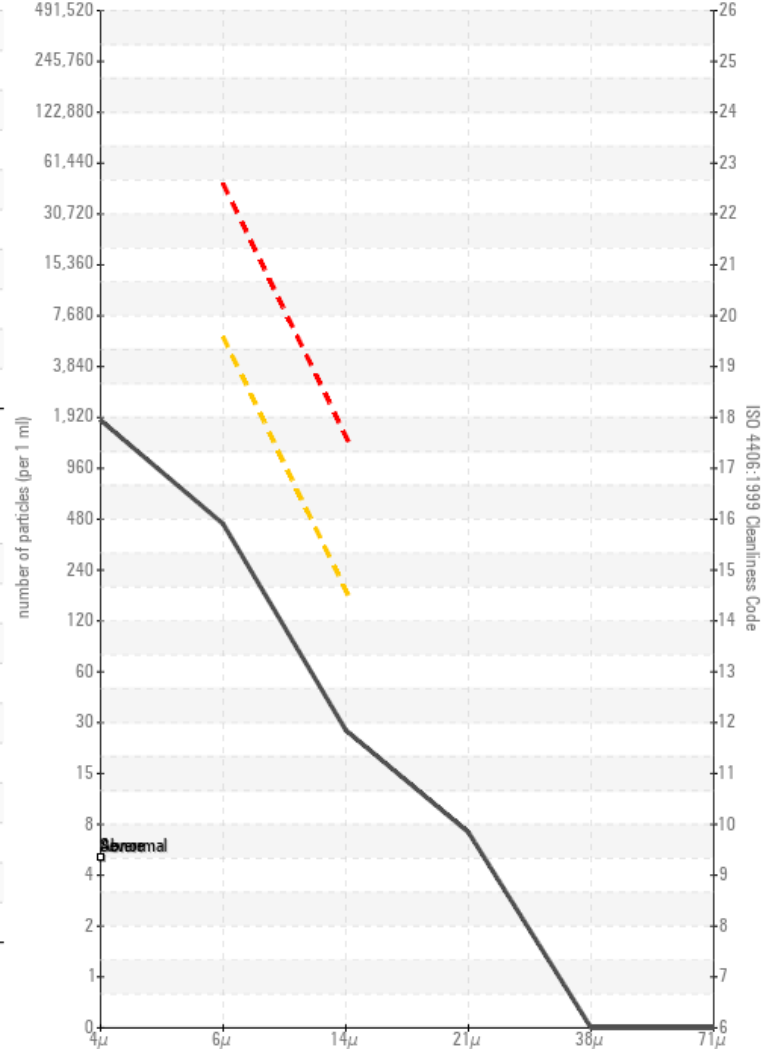
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

