



CONSTRUCTION EQUIPMENT

SWO-063672 VOLVO A45G 352708 - HYDRAULIC SYSTEM



Sample No: VCP424604
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-063672



SAMPLE INFORMATION

Sample Number	VCP424604	VCP402462	VCP369290	VCP366788
Sample Date	06 Jul 2023	24 Mar 2023	08 Nov 2022	25 Jul 2022
Machine Hours	3920	3429	2956	2440
Oil Hours	0	0	0	2440
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	44.4	43.9	44.5	44.5
Acid Number (AN)	mg KOH/g	0.31	0.31	0.40	0.43

CONTAMINATION

Particles >4µm		281	2527	1756	5119
Particles >6µm		94	704	285	1387
Particles >14µm		11	62	23	95
ISO 4406:1999 (c)		15/14/11	19/17/13	18/15/12	20/18/14
Silicon	ppm	6	6	5	5
Sodium	ppm	0	1	<1	1
Potassium	ppm	<1	0	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	9	5	6	5
Copper	ppm	2	7	2	2
Lead	ppm	3	3	2	2
Tin	ppm	<1	0	0	0
Aluminum	ppm	2	1	<1	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	<1	0	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	76	73	75	72
Magnesium	ppm	0	1	0	0
Zinc	ppm	441	443	392	422
Phosphorus	ppm	326	334	330	319
Barium	ppm	0	0	0	<1
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10550759
Signed: Angela Borella
Report Date: 12 Jul 2023

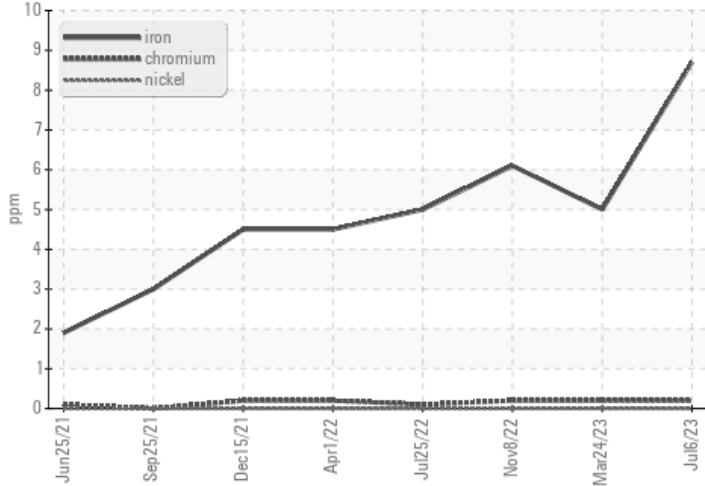


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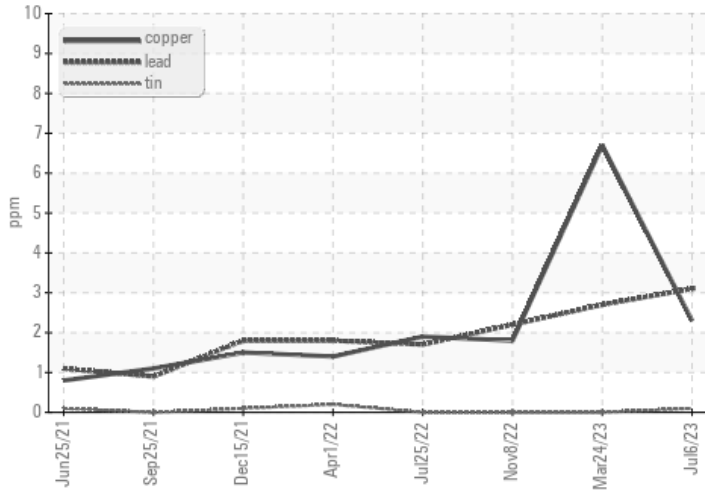


GRAPHS

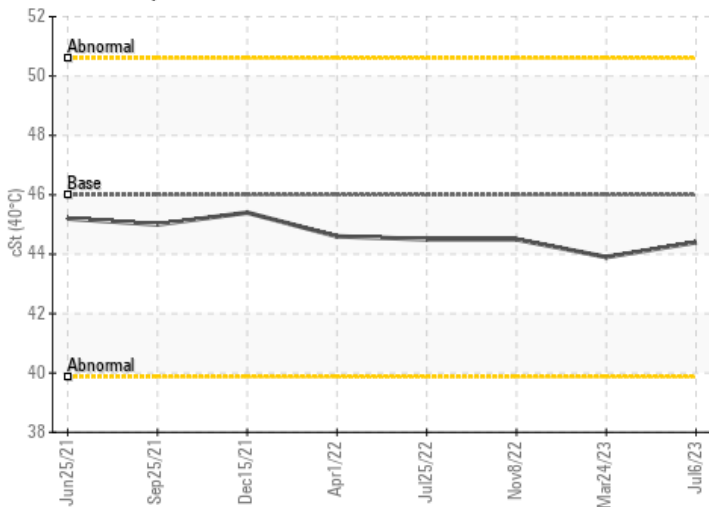
Ferrous Alloys



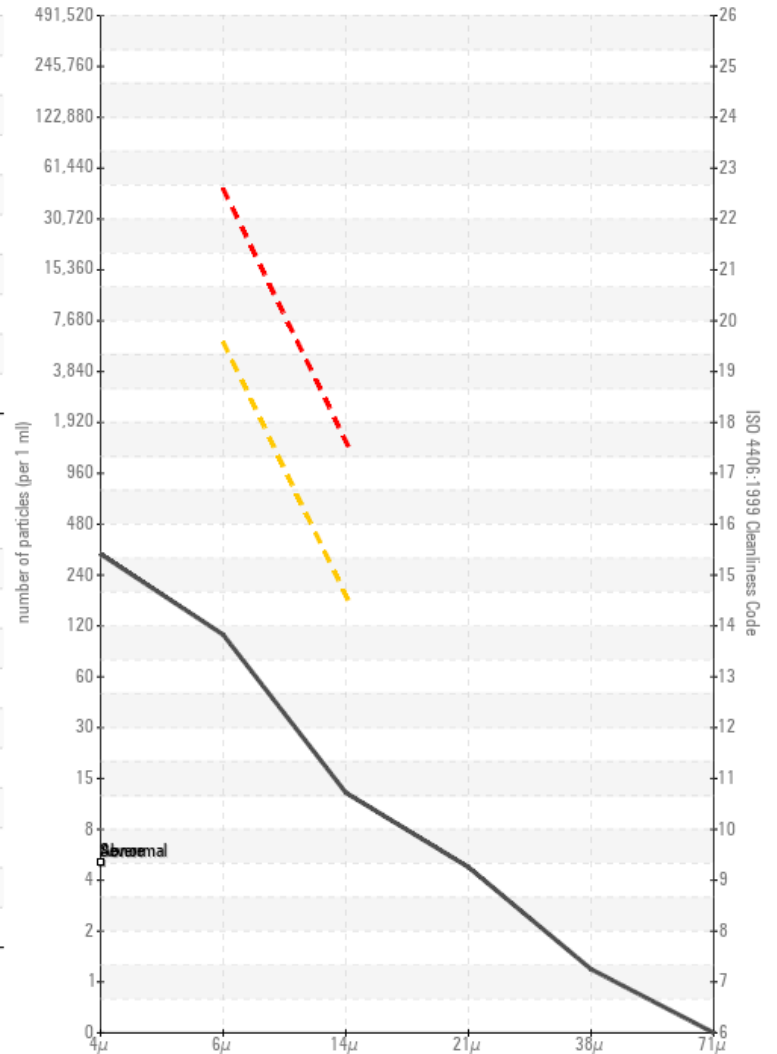
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

