



CONSTRUCTION EQUIPMENT

SWO-069432 VOLVO A45G 352565 - HYDRAULIC SYSTEM



Sample No: VCP446970
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-069432



SAMPLE INFORMATION

Sample Number	VCP446970	VCP432349	VCP431983	VCP417532
Sample Date	06 Feb 2024	06 Dec 2023	03 Oct 2023	31 Jul 2023
Machine Hours	9060	8568	8080	7625
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	44.3	41.0	44.4	45.0
Acid Number (AN)	mg KOH/g	0.43	0.40	0.37	0.37



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		2472	2083	2243	2378
Particles >6µm		355	352	302	267
Particles >14µm		20	16	20	10
ISO 4406:1999 (c)		18/16/11	18/16/11	18/15/11	18/15/10
Silicon	ppm	4	4	6	5
Sodium	ppm	1	<1	<1	3
Potassium	ppm	0	0	<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	5	4	8	7
Copper	ppm	1	4	2	2
Lead	ppm	0	0	2	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	<1	<1	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	<1	<1	1	1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	129	181	129	123
Magnesium	ppm	51	13	13	12
Zinc	ppm	539	502	481	449
Phosphorus	ppm	423	416	354	347
Barium	ppm	0	0	0	0
Boron	ppm	1	2	0	0

Depot: SAIBIR
Unique No: 10872173
Signed: Jonathan Hester
Report Date: 12 Feb 2024

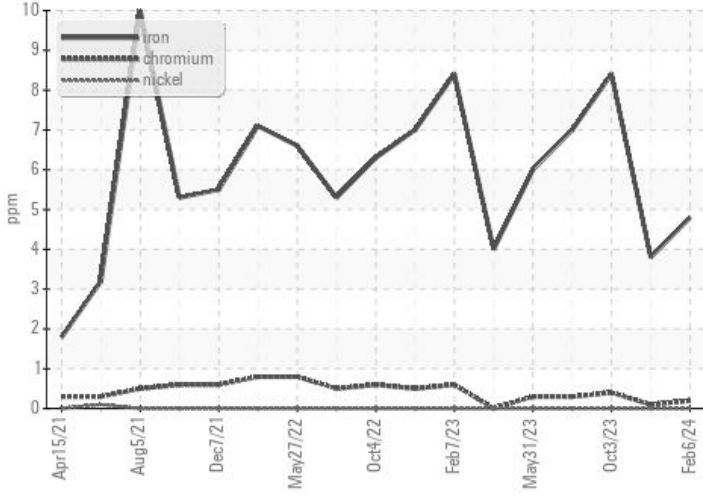


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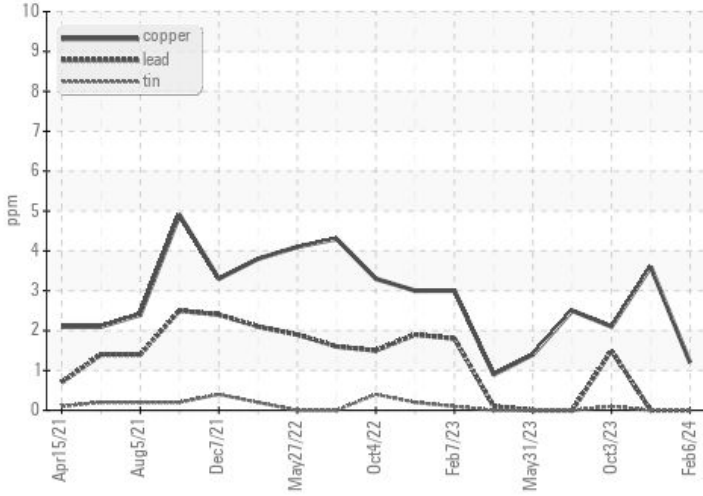


GRAPHS

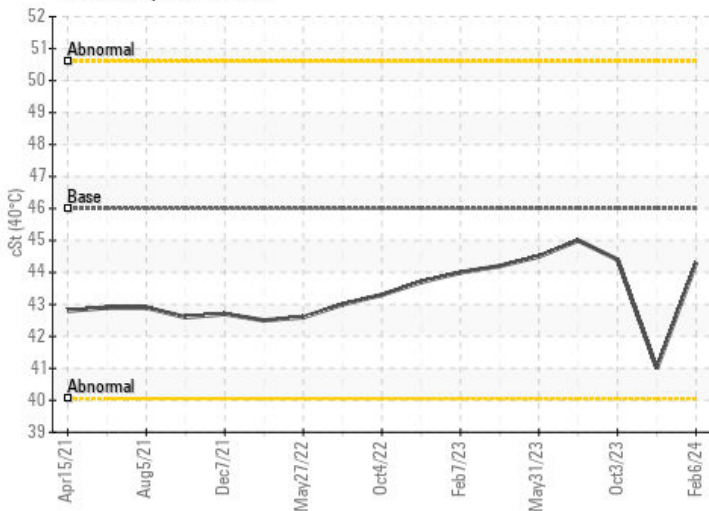
Ferrous Alloys



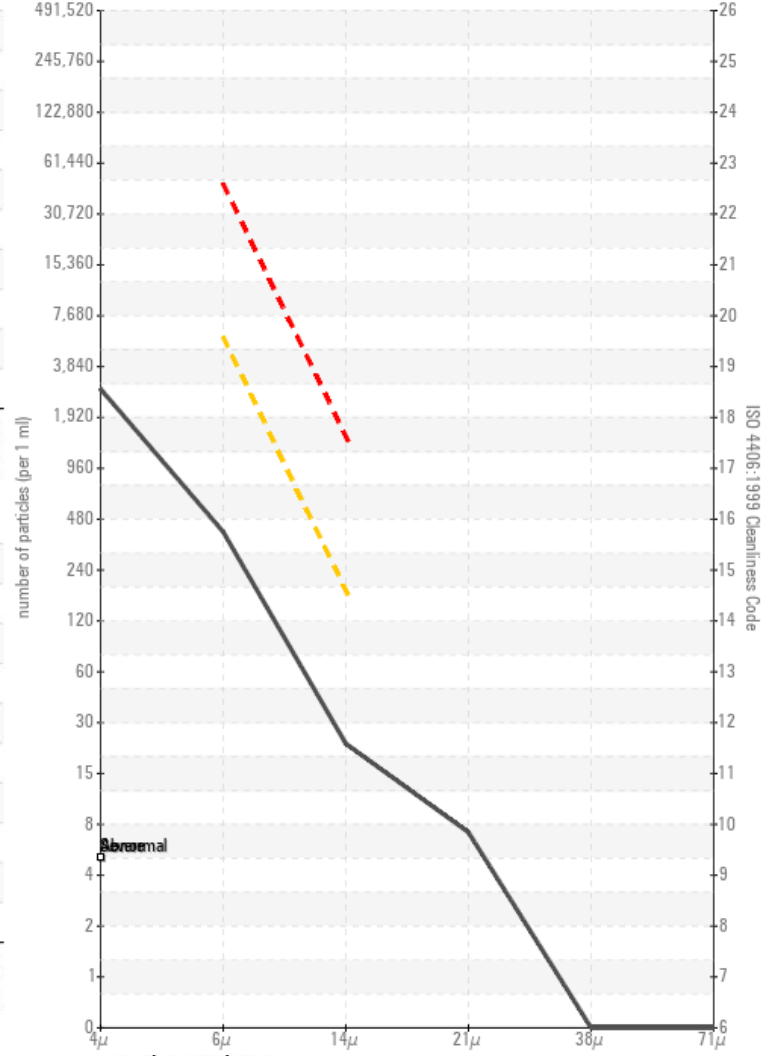
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

