



CONSTRUCTION EQUIPMENT

SWO064011 VOLVO A45G 352704 - HYDRAULIC SYSTEM



Sample No: VCP389315
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO064011



SAMPLE INFORMATION

Sample Number	VCP389315	VCP383497	VCP406424	VCP388313
Sample Date	17 Jul 2023	27 Apr 2023	08 Feb 2023	27 Oct 2022
Machine Hours	4405	3920	3450	2979
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	44.5	44.5	44.7	45.0
Acid Number (AN)	mg KOH/g	0.37	0.30	0.47	0.51

CONTAMINATION

Particles >4µm		11881	604	719	18754
Particles >6µm		4880	62	184	414
Particles >14µm		548	5	11	18
ISO 4406:1999 (c)		21/19/16	16/13/10	17/15/11	21/16/11
Silicon	ppm	5	6	6	8
Sodium	ppm	0	<1	0	0
Potassium	ppm	1	<1	1	2

Diagnosis
 We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present 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	6	7	2	2
Copper	ppm	2	2	12	20
Lead	ppm	2	0	2	2
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	1	0	1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	<1	0	<1	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	<1
Manganese	ppm	0	<1	0	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	95	65	64	61
Magnesium	ppm	5	5	8	7
Zinc	ppm	447	378	418	424
Phosphorus	ppm	333	301	312	316
Barium	ppm	1	0	0	0
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10564545
Signed: Doug Bogart
Report Date: 23 Jul 2023

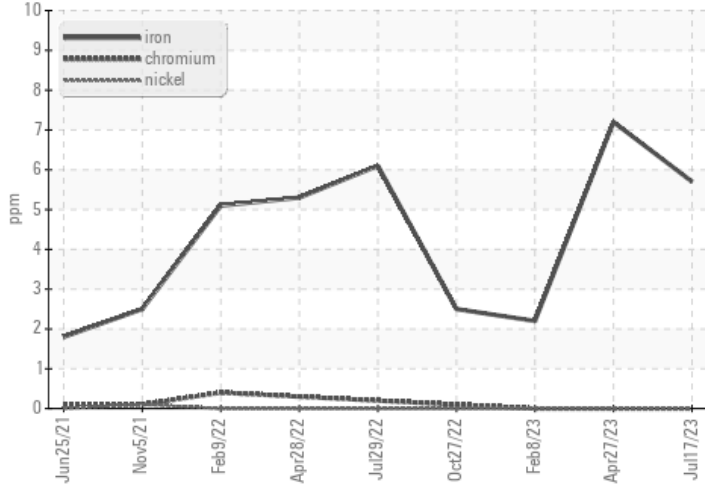


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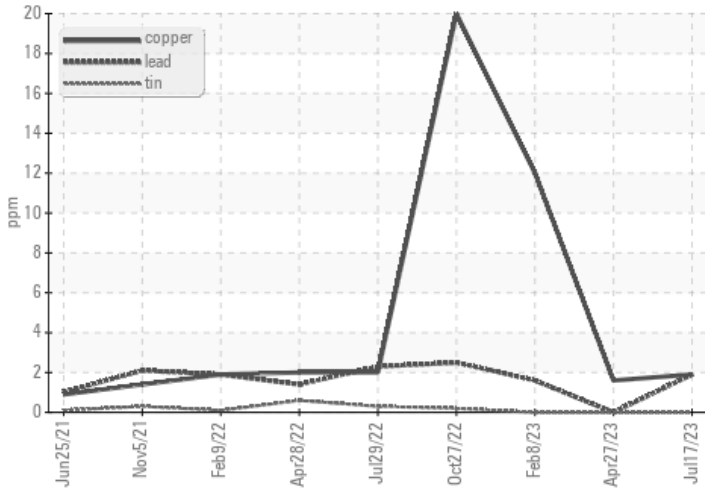


GRAPHS

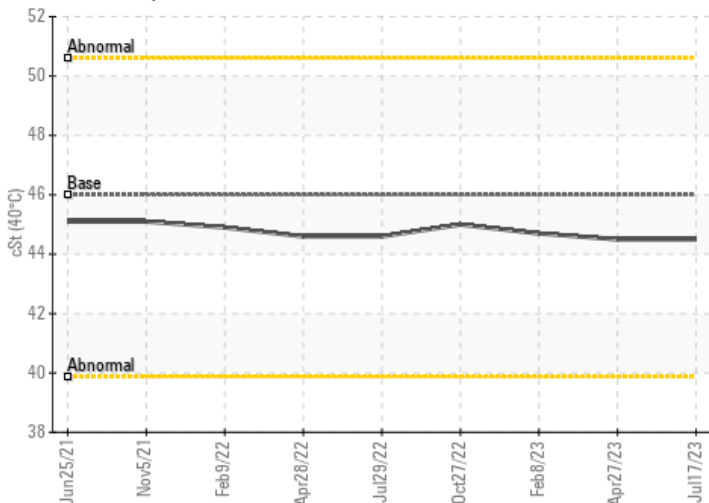
Ferrous Alloys



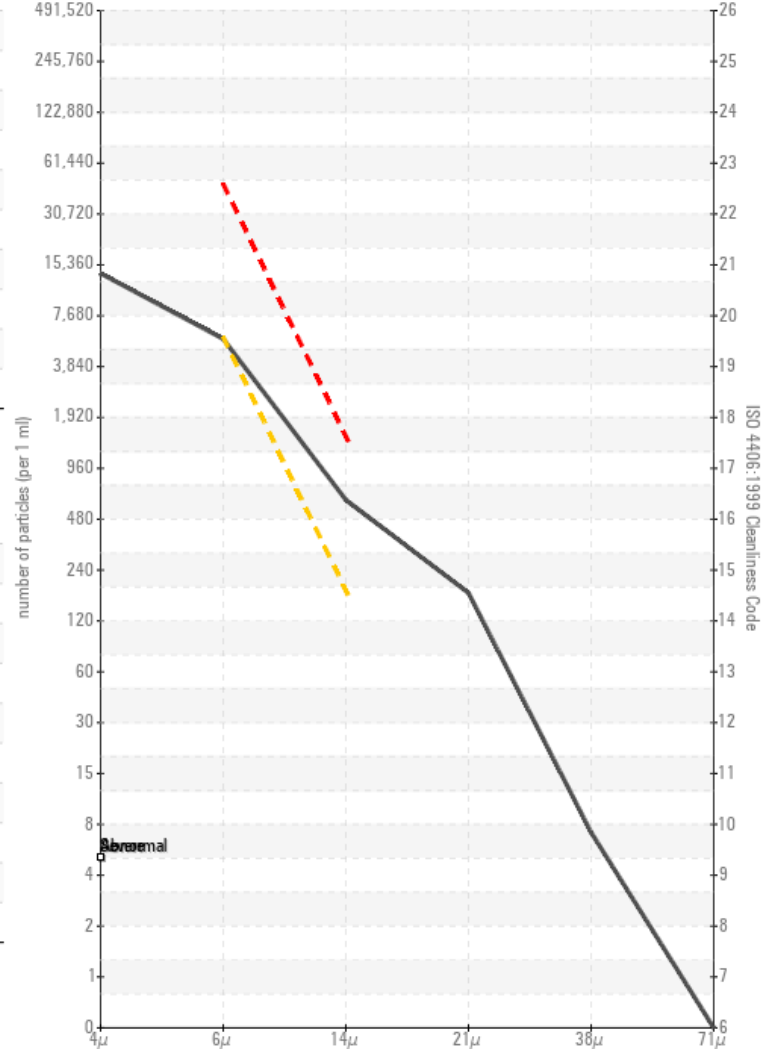
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

