



CONSTRUCTION EQUIPMENT

VOLVO A45G 352704 - HYDRAULIC SYSTEM



Sample No: VCP431886
Oil Type: AW HYDRAULIC OIL ISO 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP431886	VCP389315	VCP383497	VCP406424
Sample Date	06 Nov 2023	17 Jul 2023	27 Apr 2023	08 Feb 2023
Machine Hours	4902	4405	3920	3450
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	44.2	44.5	44.5	44.7
Acid Number (AN)	mg KOH/g	0.36	0.37	0.30	0.47

CONTAMINATION

Particles >4µm		7495	11881	604	719
Particles >6µm		2116	4880	62	184
Particles >14µm		78	▲ 548	5	11
ISO 4406:1999 (c)		20/18/13	21/19/16	16/13/10	17/15/11
Silicon	ppm	5	5	6	6
Sodium	ppm	0	0	<1	0
Potassium	ppm	1	1	<1	1

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	7	6	7	2
Copper	ppm	2	2	2	12
Lead	ppm	2	2	0	2
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	1	0
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	<1	<1	0	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	<1	0
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	86	95	65	64
Magnesium	ppm	25	5	5	8
Zinc	ppm	436	447	378	418
Phosphorus	ppm	344	333	301	312
Barium	ppm	7	1	0	0
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10743354
Signed: Don Baldrige
Report Date: 19 Nov 2023

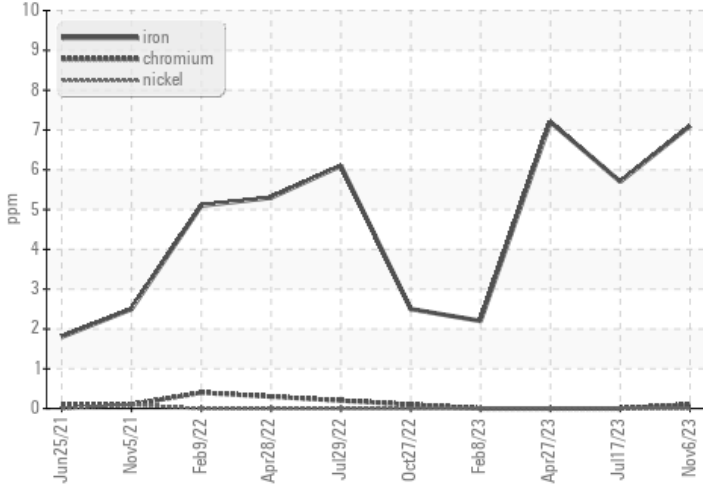


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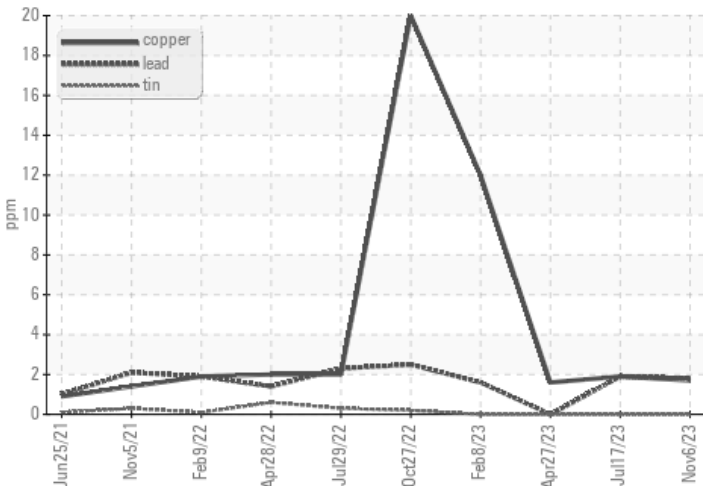


GRAPHS

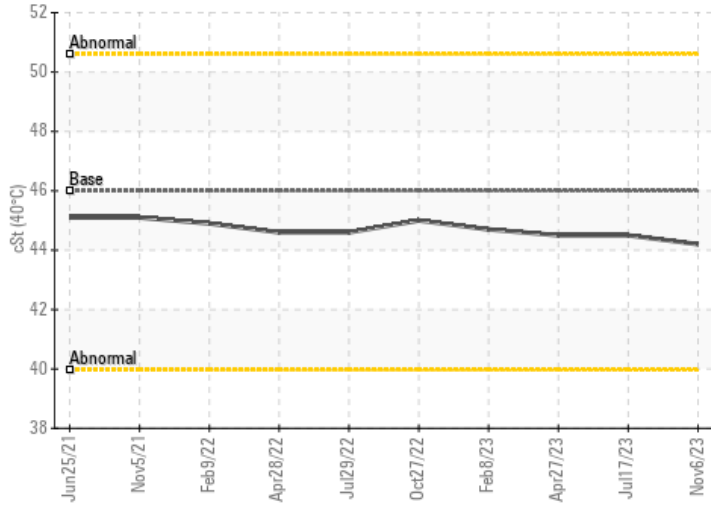
Ferrous Alloys



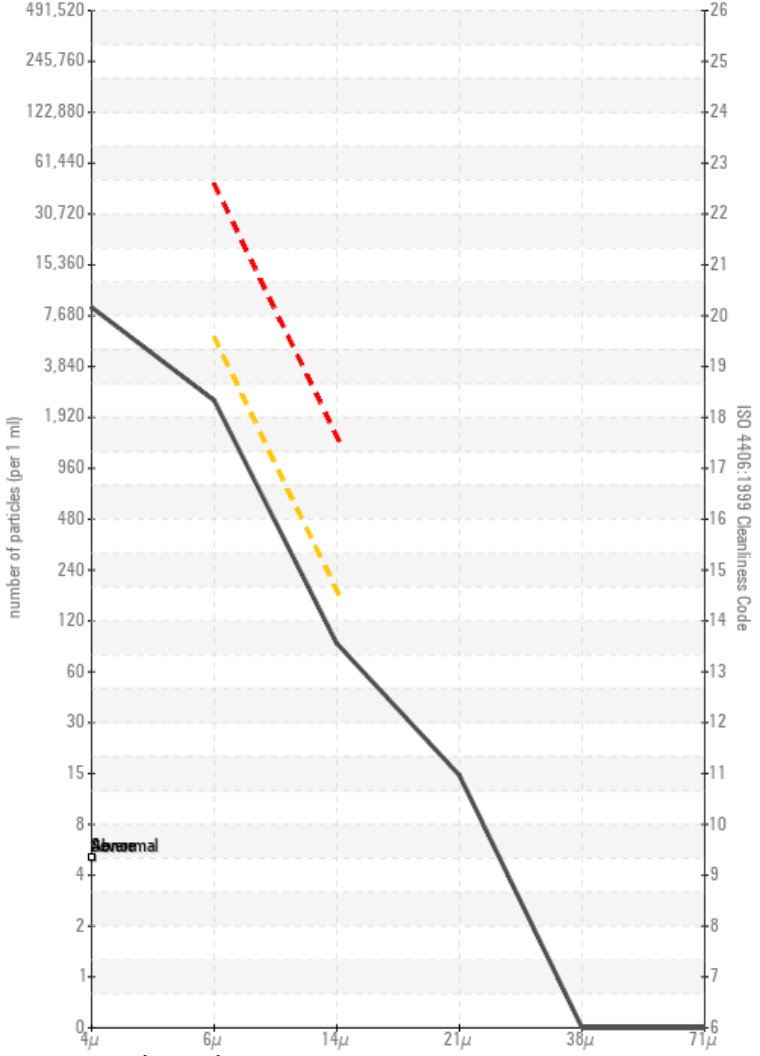
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

