



CONSTRUCTION EQUIPMENT

SW-26366-2 CASTLE VA VOLVO A40G 340313 - HYDRAULIC SYSTEM



Sample No: VCP441958
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SW-26366-2 CASTLE VA



SAMPLE INFORMATION

Sample Number	VCP441958	VCP340966	VCP307913	VCP215899
Sample Date	16 Nov 2023	23 Nov 2021	02 Apr 2021	13 Apr 2018
Machine Hours	17580	13143	11646	5956
Oil Hours	4000	2000	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	43.3	43.6	43.5	43.81
Acid Number (AN)	mg KOH/g	0.24	0.240	0.332	0.510



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		1040	3887	1114	21998
Particles >6µm		314	1057	141	1088
Particles >14µm		36	87	11	26
ISO 4406:1999 (c)		17/15/12	19/17/14	17/14/11	22/17/12
Silicon	ppm	7	10	11	13
Sodium	ppm	2	0	3	2
Potassium	ppm	2	<1	<1	0

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	3	8	8	17
Copper	ppm	2	4	3	7
Lead	ppm	<1	1	<1	4
Tin	ppm	<1	0	0	0
Aluminum	ppm	1	<1	3	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	<1	<1	3
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	<1	<1	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	125	201	199	873
Magnesium	ppm	6	7	9	22
Zinc	ppm	487	465	474	522
Phosphorus	ppm	372	367	354	467
Barium	ppm	0	0	0	0
Boron	ppm	0	4	5	11

Depot: VOLVO8770
Unique No: 10762502
Signed: Wes Davis
Report Date: 28 Nov 2023

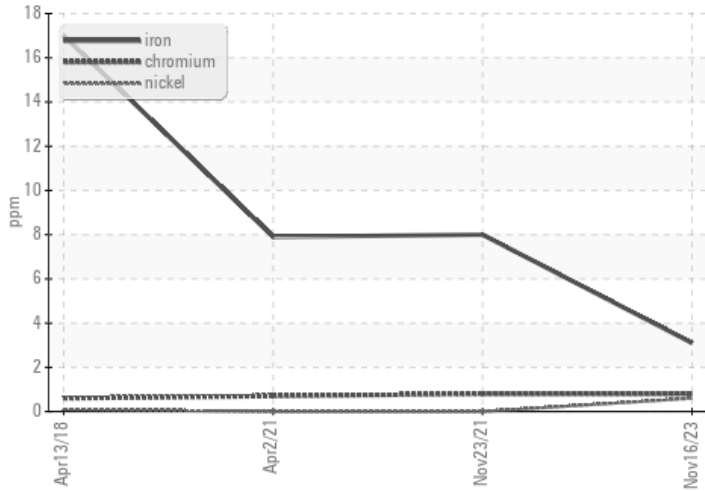


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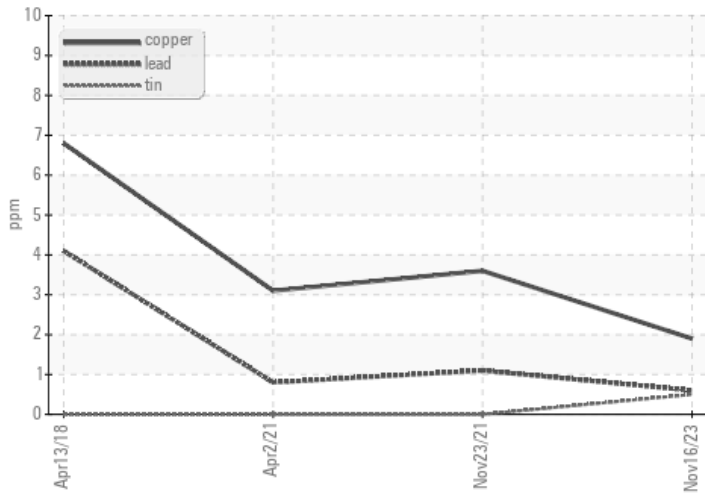


VOLVO GRAPHS

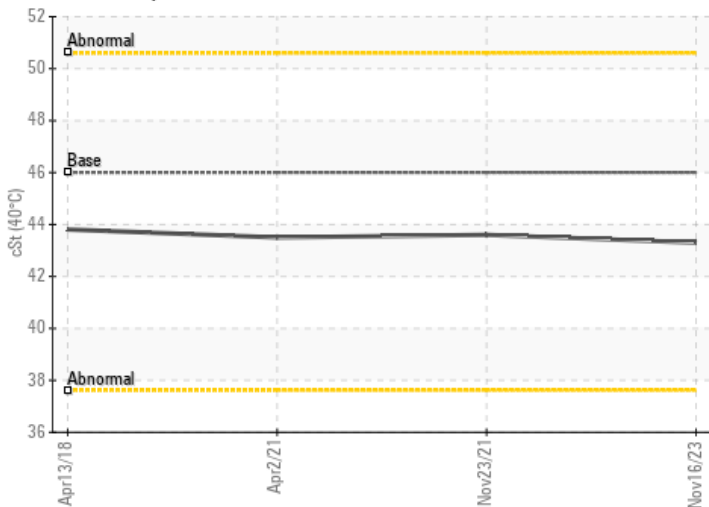
Ferrous Alloys



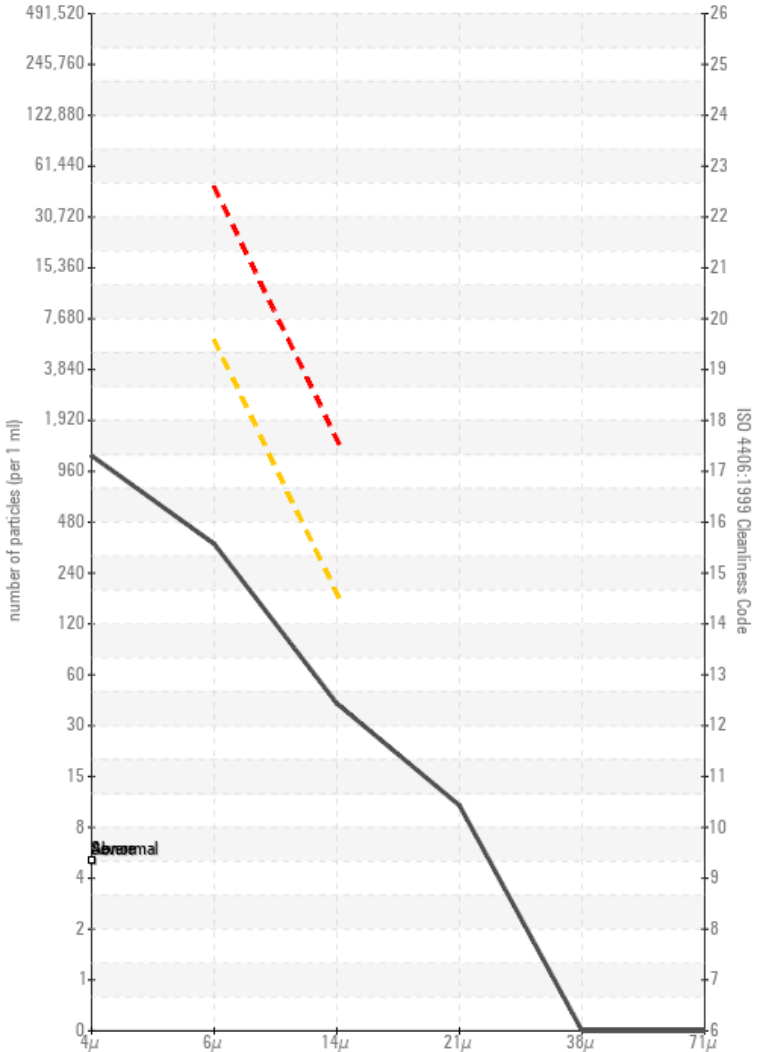
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

