



CONSTRUCTION EQUIPMENT

VOLVO A45G 342321 - HYDRAULIC SYSTEM



Sample No: VCP416627
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP416627	VCP412978	VCP403656	VCP369487
Sample Date	17 Oct 2023	11 Jul 2023	22 Mar 2023	23 Nov 2022
Machine Hours	8968	8493	8012	7534
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	47.1	42.3	42.7	42.3
Acid Number (AN)	mg KOH/g	0.69	0.38	0.41	0.38

CONTAMINATION

Particles >4µm		7593	38652	708	9120
Particles >6µm		126	14197	209	2509
Particles >14µm		11	759	28	96
ISO 4406:1999 (c)		20/14/11	22/21/17	17/15/12	20/19/14
Silicon	ppm	13	6	7	6
Sodium	ppm	4	0	3	<1
Potassium	ppm	0	1	0	1

Diagnosis
 No corrective action is recommended at this time. We recommend an early resample to monitor this condition. An increase in the copper level is noted. All other 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 acceptable for the time in service.

WEAR METALS

Iron	ppm	19	7	11	11
Copper	ppm	159	7	9	10
Lead	ppm	<1	2	3	4
Tin	ppm	<1	0	0	0
Aluminum	ppm	1	<1	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	3	3	4	4
Nickel	ppm	3	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	0
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	2396	133	124	128
Magnesium	ppm	8	14	12	14
Zinc	ppm	1099	472	460	454
Phosphorus	ppm	888	356	358	340
Barium	ppm	0	2	0	0
Boron	ppm	79	2	3	4

Depot: SAIBIR
Unique No: 10714769
Signed: Don Baldrige
Report Date: 31 Oct 2023

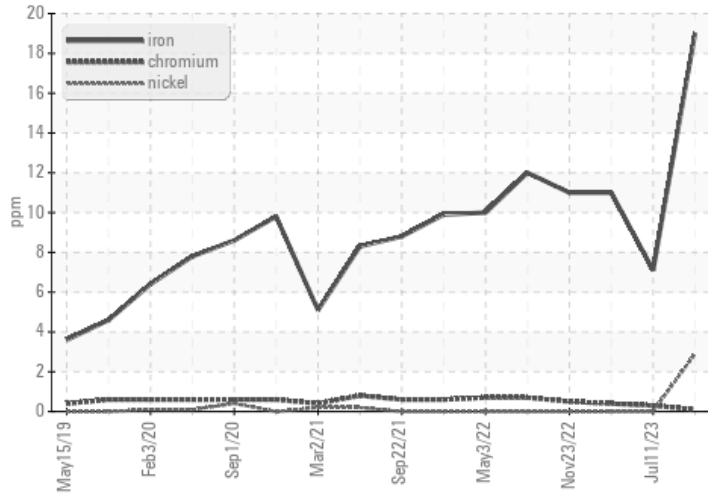


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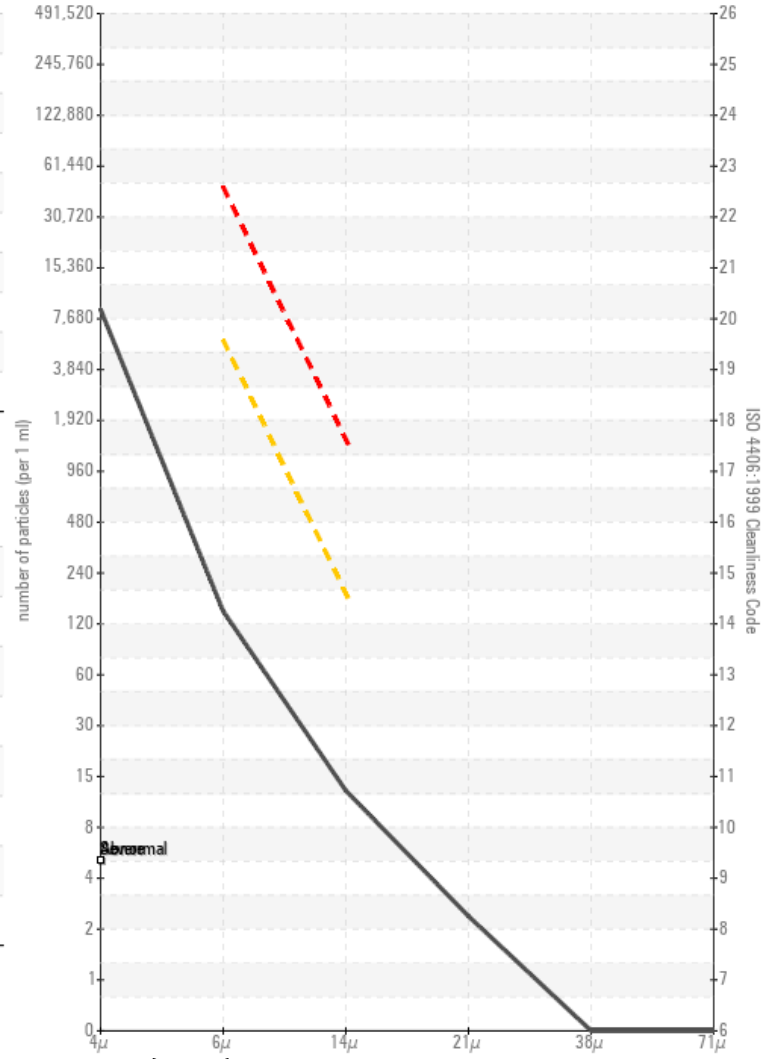


VOLVO GRAPHS

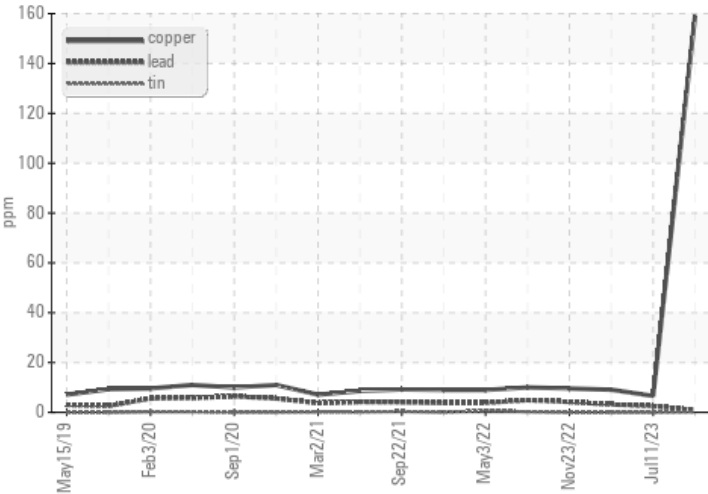
Ferrous Alloys



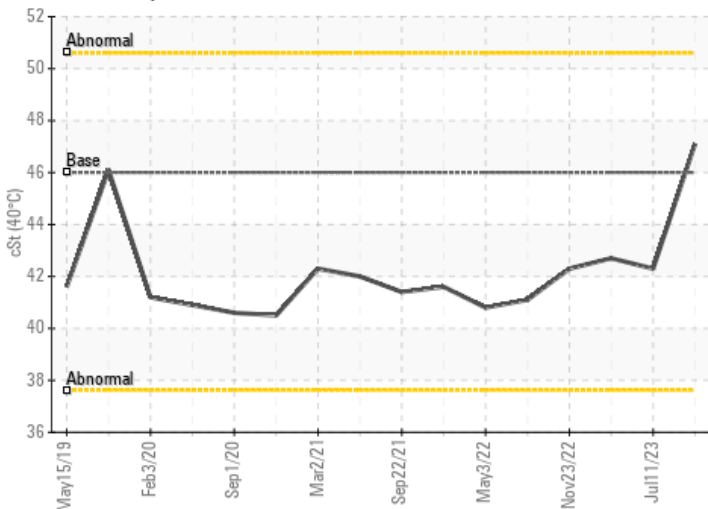
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

