



CONSTRUCTION EQUIPMENT

VOLVO A45G 352969 - HYDRAULIC SYSTEM



Sample No: VCP433935
Oil Type: AW HYDRAULIC OIL ISO 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP433935	VCP419150	VCP397718	VCP384889
Sample Date	19 Sep 2023	21 Jun 2023	24 Jan 2023	30 Sep 2022
Machine Hours	2491	2003	1469	975
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	43.0	43.6	43.4	43.4
Acid Number (AN)	mg KOH/g	0.44	0.41	0.40	0.42

CONTAMINATION

Particles >4µm		1525	6023	3096	1615
Particles >6µm		327	1549	906	320
Particles >14µm		19	54	66	26
ISO 4406:1999 (c)		18/16/11	20/18/13	19/17/13	18/15/12
Silicon	ppm	5	4	5	4
Sodium	ppm	<1	1	0	0
Potassium	ppm	0	0	<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	5	4	3	2
Copper	ppm	2	1	1	2
Lead	ppm	2	<1	2	2
Tin	ppm	<1	0	0	<1
Aluminum	ppm	0	<1	0	<1
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	0	<1	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	0
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	79	70	72	67
Magnesium	ppm	16	0	<1	0
Zinc	ppm	443	471	443	437
Phosphorus	ppm	357	354	326	322
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10662404
Signed: Don Baldrige
Report Date: 27 Sep 2023

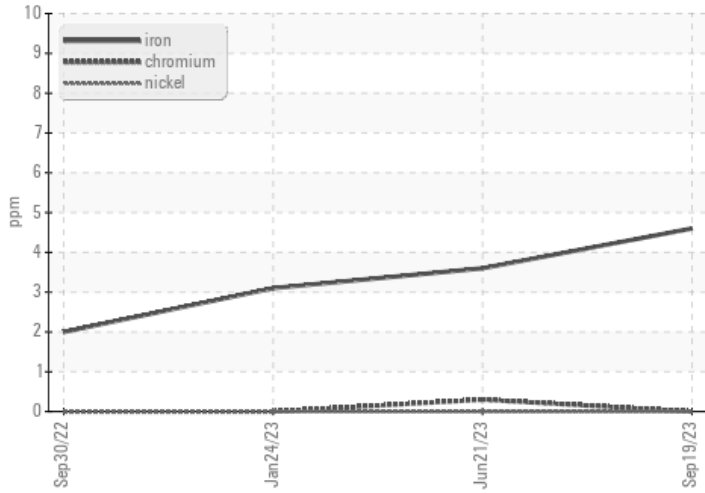


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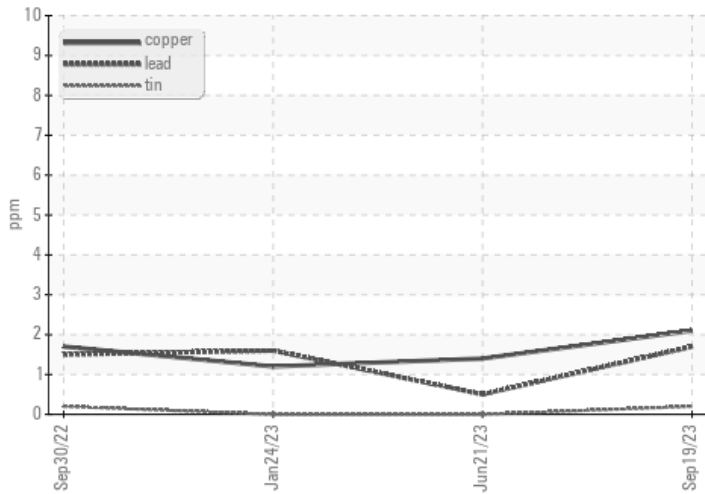


VOLVO GRAPHS

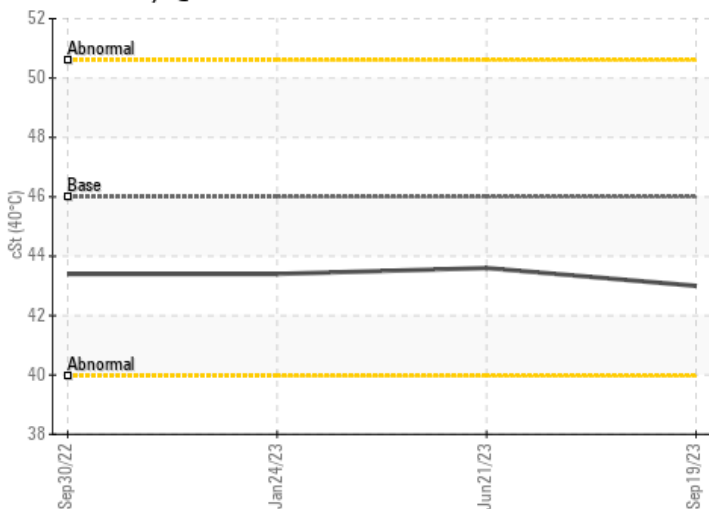
Ferrous Alloys



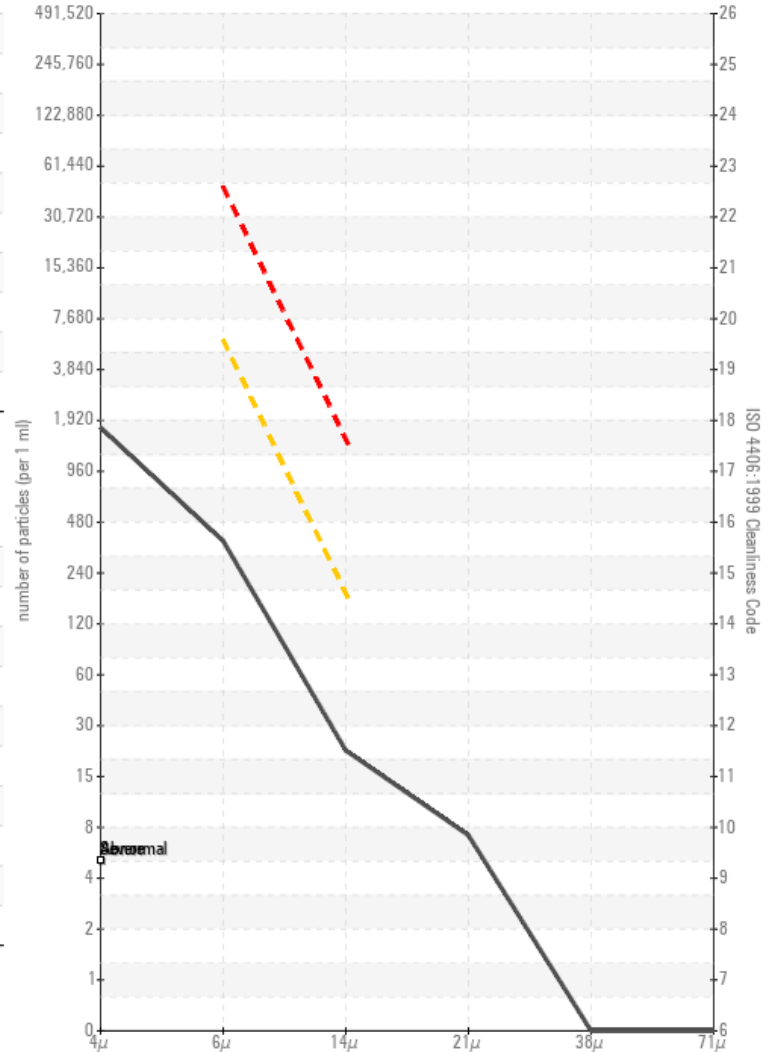
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

