



CONSTRUCTION EQUIPMENT

VOLVO A45G 352799 - HYDRAULIC SYSTEM



Sample No: VCP447604
Oil Type: AW HYDRAULIC OIL ISO 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP447604	VCP445323	VCP431957	VCP417099
Sample Date	04 Jun 2024	27 Feb 2024	25 Oct 2023	12 Jul 2023
Machine Hours	5435	4930	4451	3946
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	45.2	44.9	44.9	44.5
Acid Number (AN)	mg KOH/g	0.34	0.45	0.37	0.37



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		1344	26184	2216	721
Particles >6µm		258	7054	463	110
Particles >14µm		9	285	46	8
ISO 4406:1999 (c)		18/15/10	22/20/15	18/16/13	17/14/10
Silicon	ppm	4	3	4	7
Sodium	ppm	2	0	2	0
Potassium	ppm	0	0	0	<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	0	<1	9
Copper	ppm	1	0	6	3
Lead	ppm	0	<1	<1	3
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	0	0	1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	3	0	0	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	98	60	18	68
Magnesium	ppm	31	16	0	2
Zinc	ppm	446	408	335	457
Phosphorus	ppm	354	321	232	345
Barium	ppm	0	1	0	1
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 11073882
Signed: Don Baldrige
Report Date: 13 Jun 2024

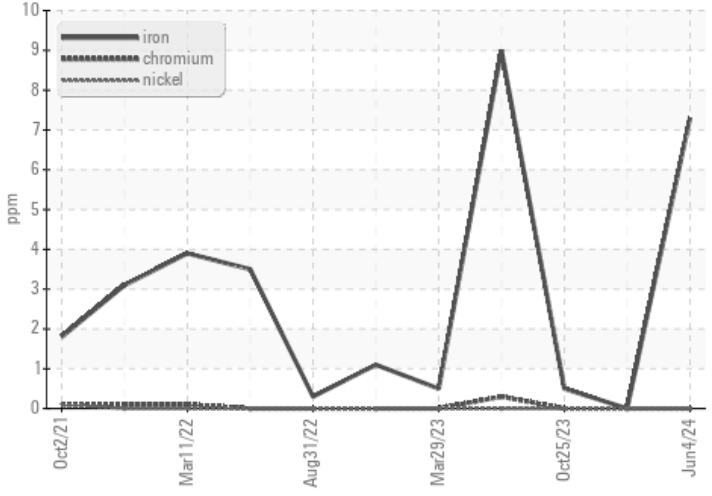


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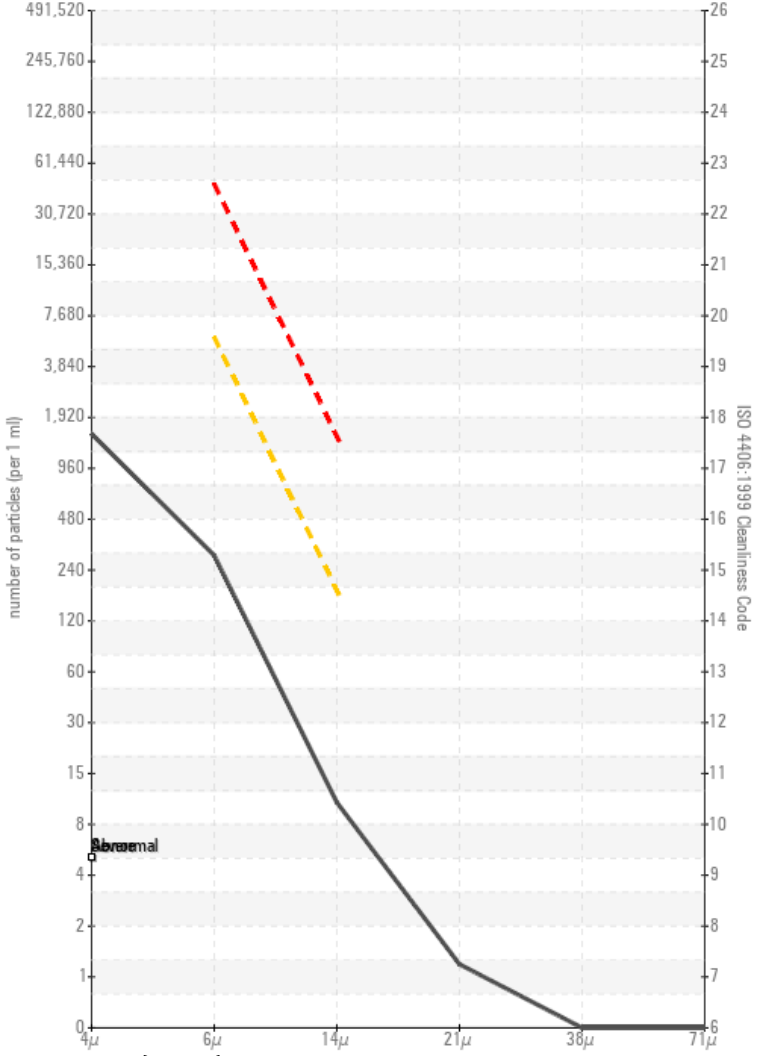


GRAPHS

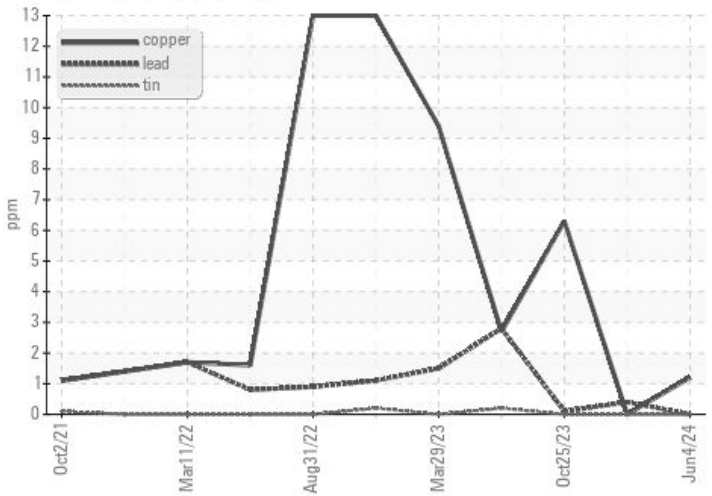
Ferrous Alloys



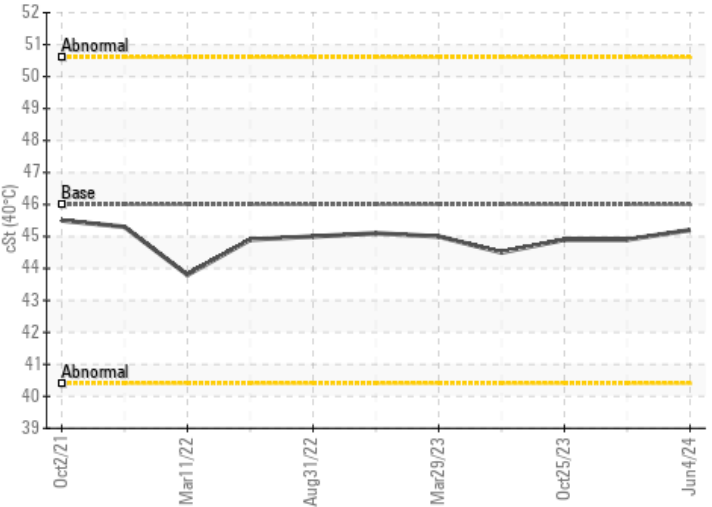
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

