



CONSTRUCTION EQUIPMENT

VOLVO A45G 352916 - HYDRAULIC SYSTEM



Sample No: VCP450930
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP450930	VCP435633	VCP435120	VCP419137
Sample Date	08 May 2024	26 Jan 2024	11 Oct 2023	25 Jul 2023
Machine Hours	4510	4034	3517	3005
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Changed	Not Chngd	Not Chngd
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC
 4400 LEWISBURG RD
 BIRMINGHAM, AL
 US 35207
 Contact: STEPHANI BRITTON
 sbritton@saiia.com;doug.bogart@wearcheck.com
 T: (205)943-2268
 F: (205)943-2269



OIL CONDITION

Visc @ 40°C	cSt	43.8	43.4	43.4	43.2
Acid Number (AN)	mg KOH/g	0.44	0.35	0.40	0.39



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		21656	1249	1341	3198
Particles >6µm		7548	213	233	912
Particles >14µm		504	8	17	44
ISO 4406:1999 (c)		22/20/16	17/15/10	18/15/11	19/17/13
Silicon	ppm	4	6	6	5
Sodium	ppm	<1	1	<1	0
Potassium	ppm	0	<1	0	0

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present 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	7	7	6
Copper	ppm	2	4	4	3
Lead	ppm	2	2	2	3
Tin	ppm	0	<1	0	<1
Aluminum	ppm	<1	2	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	2	0	0	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	0	0
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	97	65	56	61
Magnesium	ppm	66	0	0	<1
Zinc	ppm	511	402	438	448
Phosphorus	ppm	402	325	318	338
Barium	ppm	0	0	0	2
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 11035541
Signed: Jonathan Hester
Report Date: 22 May 2024

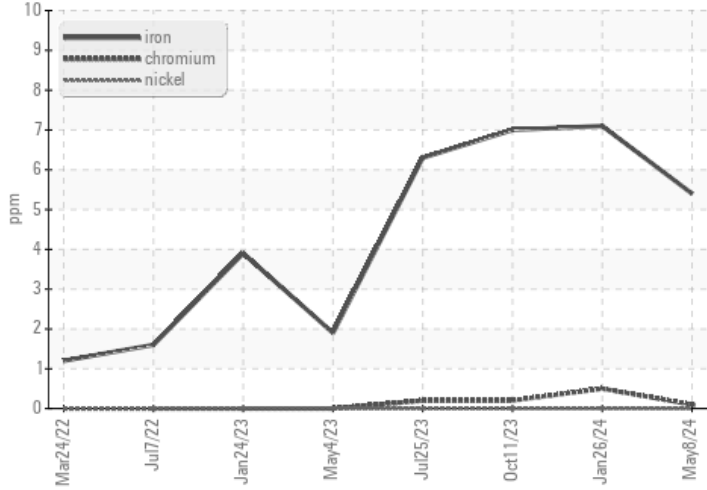


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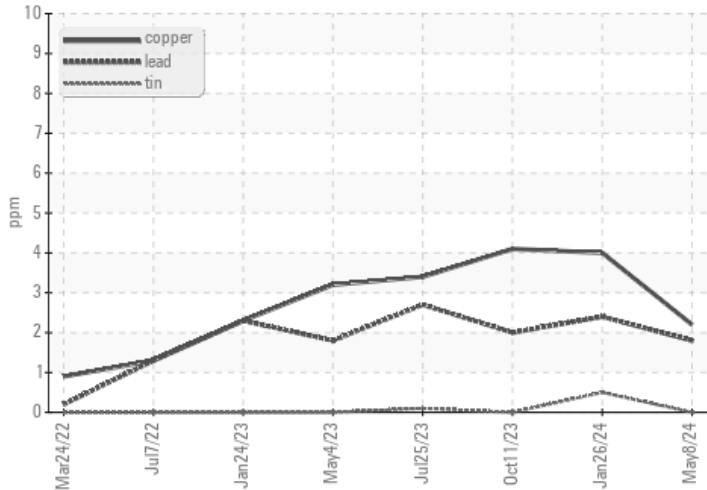


VOLVO GRAPHS

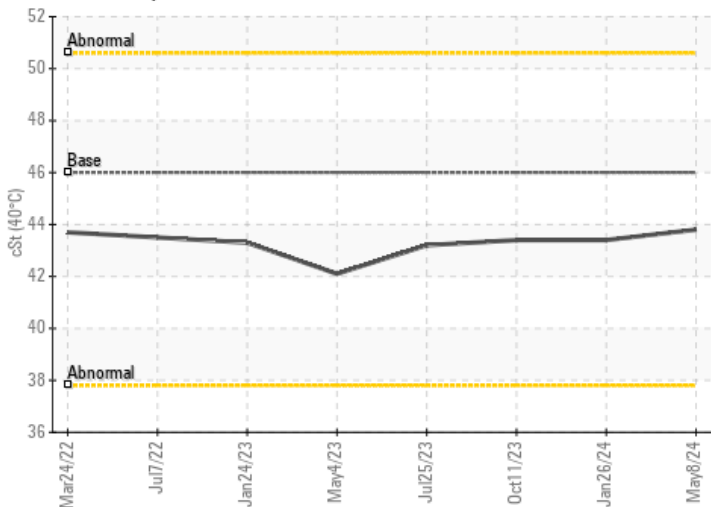
Ferrous Alloys



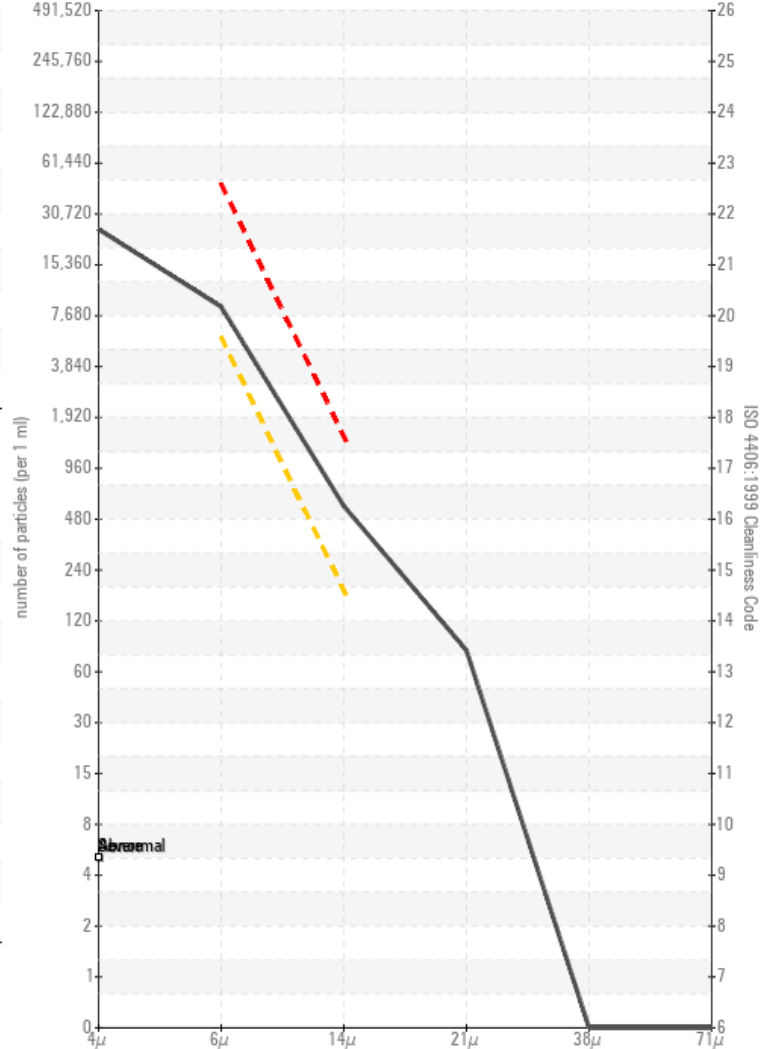
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

