



CONSTRUCTION EQUIPMENT

SWO-06920 VOLVO A45G 352916 - HYDRAULIC SYSTEM



Sample No: VCP435633
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWO-06920



SAMPLE INFORMATION

Sample Number	VCP435633	VCP435120	VCP419137	VCP404638
Sample Date	26 Jan 2024	11 Oct 2023	25 Jul 2023	04 May 2023
Machine Hours	4034	3517	3005	2493
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 40°C	cSt	43.4	43.4	43.2	42.1
Acid Number (AN)	mg KOH/g	0.35	0.40	0.39	0.35



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		1249	1341	3198	1944
Particles >6µm		213	233	912	382
Particles >14µm		8	17	44	27
ISO 4406:1999 (c)		17/15/10	18/15/11	19/17/13	18/16/12
Silicon	ppm	6	6	5	4
Sodium	ppm	1	<1	0	<1
Potassium	ppm	<1	0	0	0

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	7	6	2
Copper	ppm	4	4	3	3
Lead	ppm	2	2	3	2
Tin	ppm	<1	0	<1	0
Aluminum	ppm	2	<1	<1	<1
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	0	0	<1	0
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	0	0
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	65	56	61	71
Magnesium	ppm	0	0	<1	0
Zinc	ppm	402	438	448	472
Phosphorus	ppm	325	318	338	362
Barium	ppm	0	0	2	0
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10857755
Signed: Don Baldrige
Report Date: 01 Feb 2024

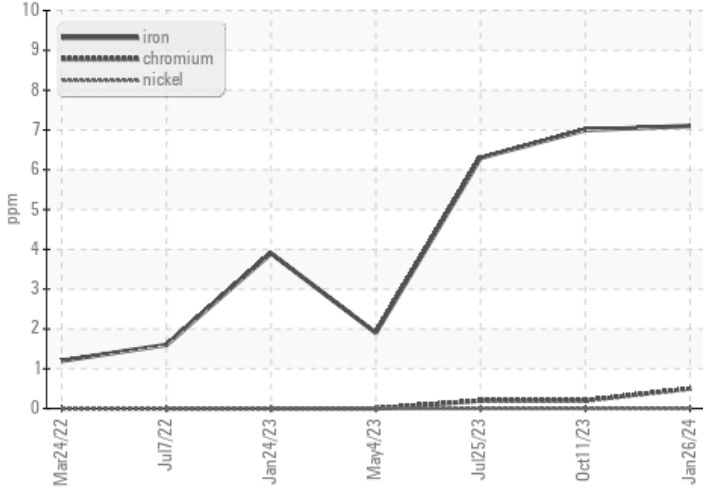


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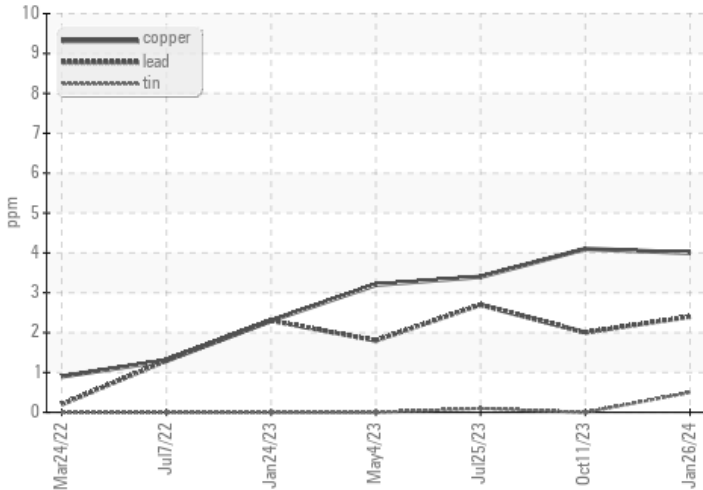


GRAPHS

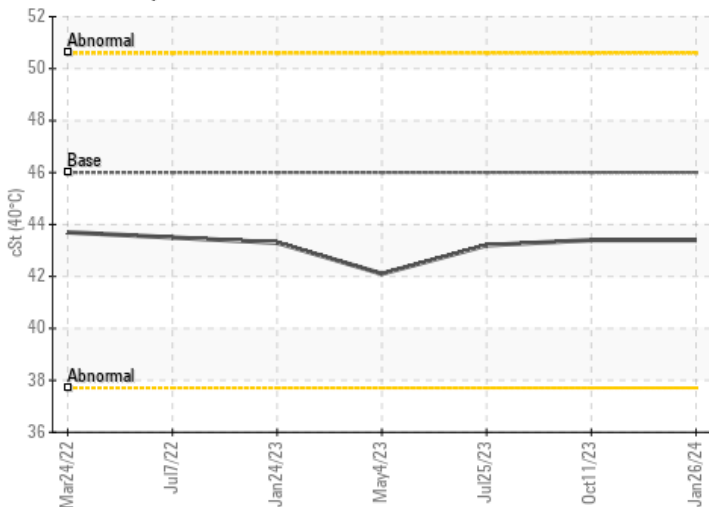
Ferrous Alloys



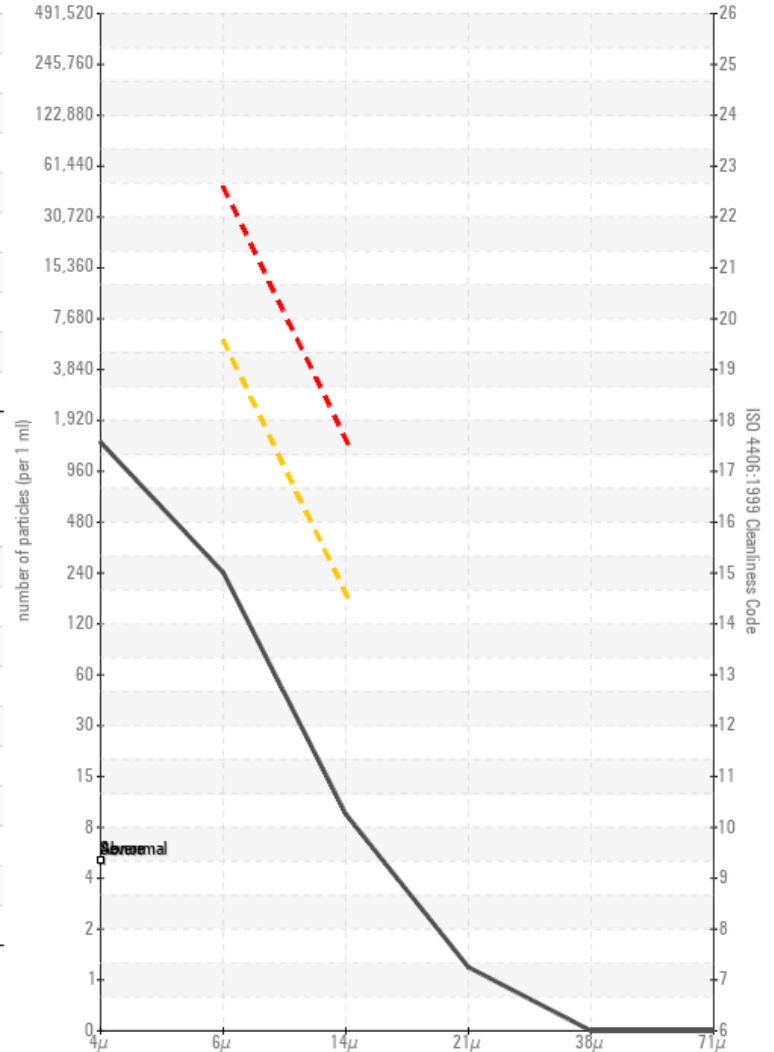
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

