CONSTRUCTION EQUIPMENT

SWO-068706 VOLVO A45G 352134 - HYDRAULIC SYSTEM

Sample No: VCP441862
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-068706

SAIIA CONSTRUCTION LLC
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SAMPLE INFORMATION

Sample Number		**VCP441862**	VCP431055	VCP431902	VCP416411
Sample Date		**04 Jan 2024**	22 Nov 2023	26 Sep 2023	31 Jul 2023
Machine Hours		**8960**	8724	8228	7719
Oil Hours		**0**	0	0	0
Oil Changed		**N/A**	Not Changd	Changed	Not Changd
Sample Status		**NORMAL**	NORMAL	NORMAL	NORMAL

OIL CONDITION

Visc @ 40°C	cSt	**45.3**	44.9	45.8	46.0
Acid Number (AN)	mg KOH/g	**0.44**	0.43	0.38	0.40

CONTAMINATION

Water	%	**NEG**	NEG	NEG	NEG
Particles >4µm		**8765**	1694	1231	3874
Particles >6µm		**2581**	264	197	908
Particles >14µm		**142**	14	19	27
ISO 4406:1999 (c)		**20/19/14**	18/15/11	17/15/11	19/17/12
Silicon	ppm	**2**	3	4	4
Sodium	ppm	**<1**	0	<1	2
Potassium	ppm	**0**	1	0	<1

WEAR METALS

Iron	ppm	**5**	5	7	7
Copper	ppm	**2**	2	2	4
Lead	ppm	**0**	<1	0	0
Tin	ppm	**0**	0	<1	0
Aluminum	ppm	**0**	1	2	1
Chromium	ppm	**0**	0	0	0
Molybdenum	ppm	**<1**	1	0	<1
Nickel	ppm	**0**	0	0	0
Titanium	ppm	**0**	<1	0	0
Silver	ppm	**0**	0	0	0
Manganese	ppm	**0**	0	0	<1
Vanadium	ppm	**0**	0	0	0

ADDITIVES

Calcium	ppm	**141**	124	132	121
Magnesium	ppm	**49**	50	16	13
Zinc	ppm	**513**	484	471	451
Phosphorus	ppm	**409**	380	349	328
Barium	ppm	**0**	0	<1	0
Boron	ppm	**<1**	1	0	0

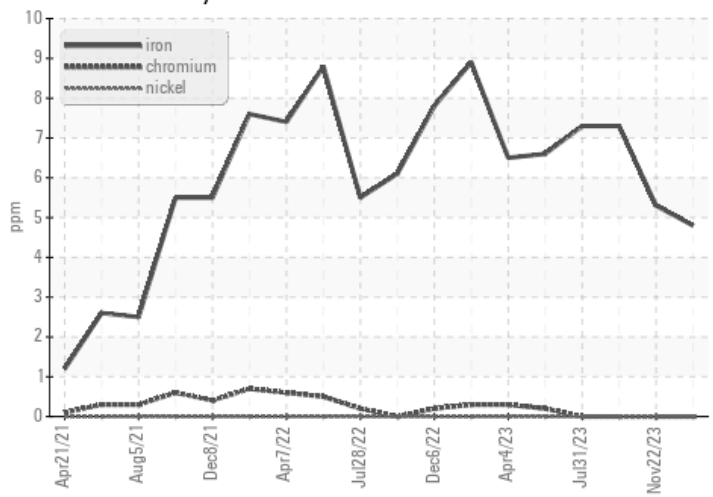
Diagnosis

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.

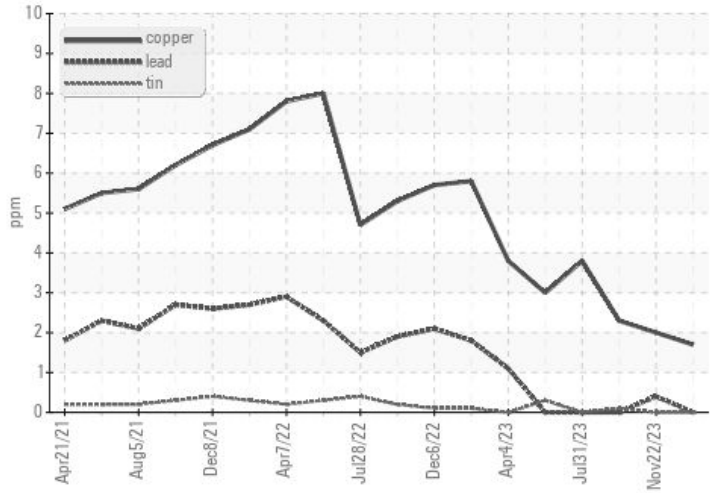
Depot: SAIBIR
Unique No: 10830639
Signed: Don Baldridge
Report Date: 15 Jan 2024

GRAPHS

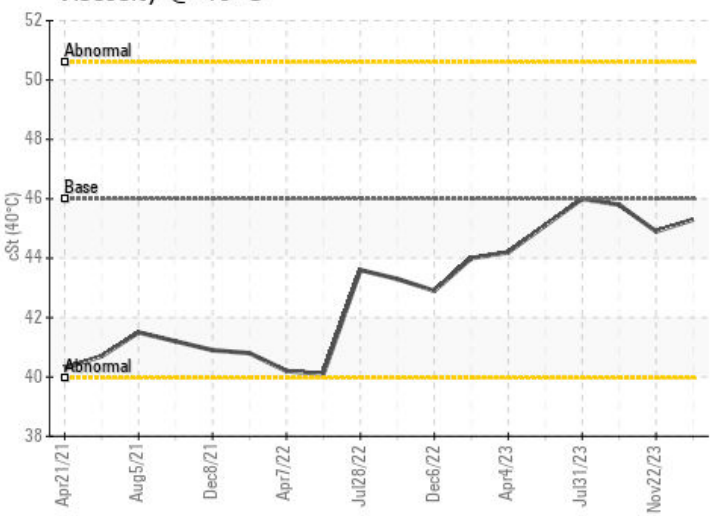
Ferrous Alloys



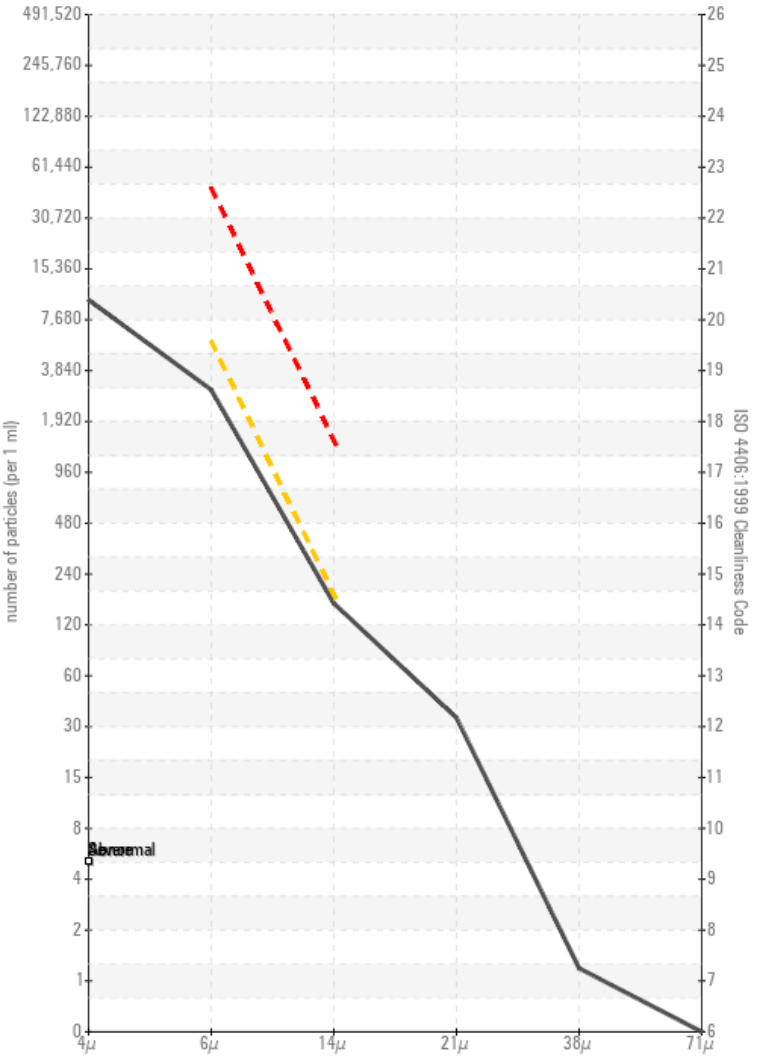
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number