CONSTRUCTION EQUIPMENT
SWO-069272 VOLVO A45G 352071 - HYDRAULIC SYSTEM

Sample No: VCP435586
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-069272

SAIIA CONSTRUCTION LLC
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SAMPLE INFORMATION

Sample Number		**VCP435586**	VCP431037	VCP431891	VCP427479
Sample Date		**29 Jan 2024**	20 Nov 2023	30 Oct 2023	09 Oct 2023
Machine Hours		**7545**	7276	7148	7028
Oil Hours		**0**	0	0	0
Oil Changed		**Not Changd**	Not Changd	Changed	Not Changd
Sample Status		**ABNORMAL**	NORMAL	NORMAL	ABNORMAL

OIL CONDITION

Visc @ 40°C	cSt	**42.2**	41.0	43.8	42.0
Acid Number (AN)	mg KOH/g	**1.50**	0.95	0.74	0.75

CONTAMINATION

Water	%	**NEG**	NEG	NEG	NEG
Particles >4µm		**12593**	4402	1179	17267
Particles >6µm		**4606**	953	134	6929
Particles >14µm		**380**	47	10	821
ISO 4406:1999 (c)		**21/19/16**	19/17/13	17/14/10	21/20/17
Silicon	ppm	**4**	4	3	4
Sodium	ppm	**1**	<1	0	2
Potassium	ppm	**<1**	0	1	2

WEAR METALS

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

ADDITIVES

Calcium	ppm	**68**	94	66	91
Magnesium	ppm	**409**	428	218	249
Zinc	ppm	**967**	954	682	798
Phosphorus	ppm	**829**	832	547	616
Barium	ppm	**0**	0	7	0
Boron	ppm	**2**	3	0	<1

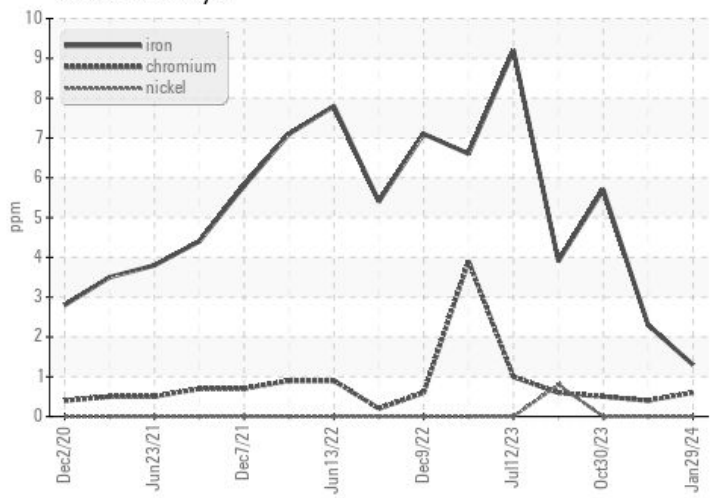
Diagnosis

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.

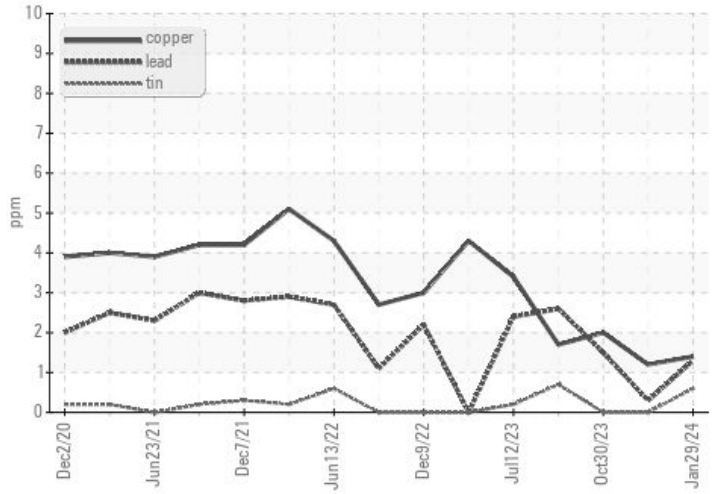
Depot: SAIBIR
Unique No: 10858905
Signed: Don Baldridge
Report Date: 02 Feb 2024

GRAPHS

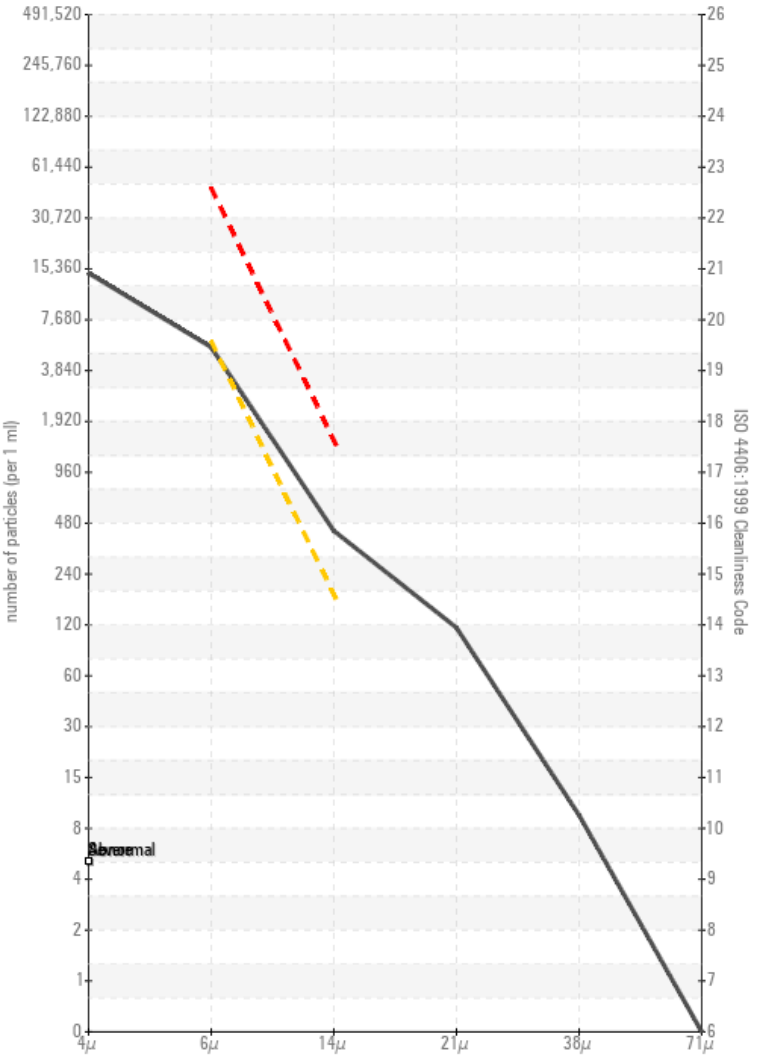
Ferrous Alloys



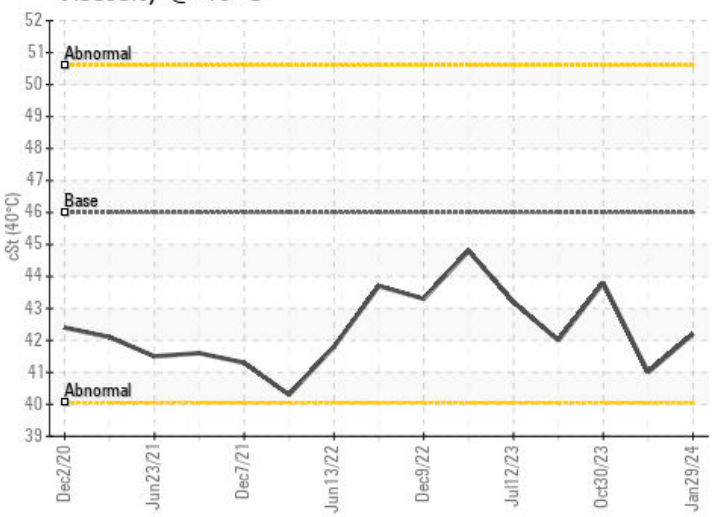
Non-ferrous Metals



Particle Count



Viscosity @ 40°C



Acid Number