CONSTRUCTION EQUIPMENT

SWO-071569 VOLVO A45G 353092 - HYDRAULIC SYSTEM

Sample No: VCP453648
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-071569

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

SAMPLE INFORMATION

Sample Number		**VCP453648**	VCP447548	VCP431092	VCP407523
Sample Date		**02 May 2024**	03 Jan 2024	19 Sep 2023	09 Jun 2023
Machine Hours		**3022**	2545	2012	1497
Oil Hours		**0**	0	0	0
Oil Changed		**Not Changd**	Not Changd	Not Changd	Not Changd
Sample Status		**NORMAL**	NORMAL	NORMAL	NORMAL

OIL CONDITION

Visc @ 40°C	cSt	**42.9**	43.2	43.0	43.3
Acid Number (AN)	mg KOH/g	**0.34**	0.34	0.43	0.44

CONTAMINATION

Water	%	**NEG**	NEG	NEG	0.022
Particles >4µm		**978**	596	2674	2413
Particles >6µm		**280**	145	287	302
Particles >14µm		**36**	9	11	41
ISO 4406:1999 (c)		**17/15/12**	16/14/10	19/15/11	18/15/13
Silicon	ppm	**6**	6	6	6
Sodium	ppm	**0**	0	0	0
Potassium	ppm	**0**	<1	2	1

WEAR METALS

Iron	ppm	**5**	7	6	4
Copper	ppm	**2**	3	2	2
Lead	ppm	**1**	3	2	2
Tin	ppm	**<1**	<1	<1	<1
Aluminum	ppm	**<1**	2	0	0
Chromium	ppm	**<1**	<1	<1	0
Molybdenum	ppm	**0**	<1	0	0
Nickel	ppm	**0**	<1	<1	0
Titanium	ppm	**0**	<1	0	0
Silver	ppm	**0**	0	0	0
Manganese	ppm	**<1**	<1	0	0
Vanadium	ppm	**0**	0	0	0

ADDITIVES

Calcium	ppm	**56**	59	53	57
Magnesium	ppm	**0**	2	0	1
Zinc	ppm	**431**	453	476	452
Phosphorus	ppm	**334**	341	344	331
Barium	ppm	**0**	7	0	0
Boron	ppm	**0**	0	0	0

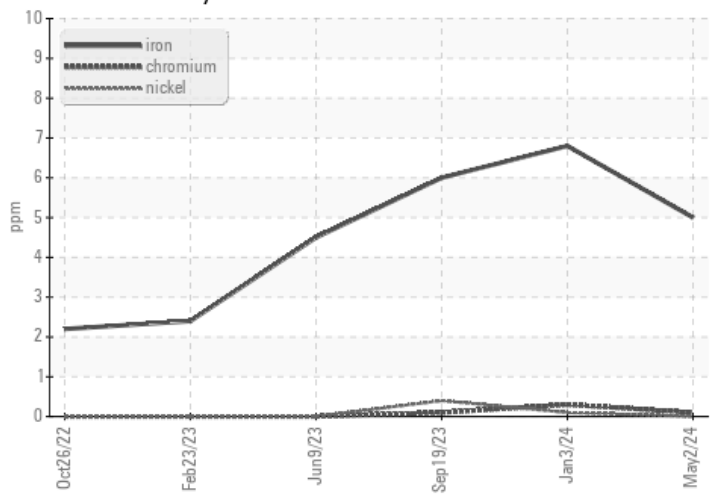
Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

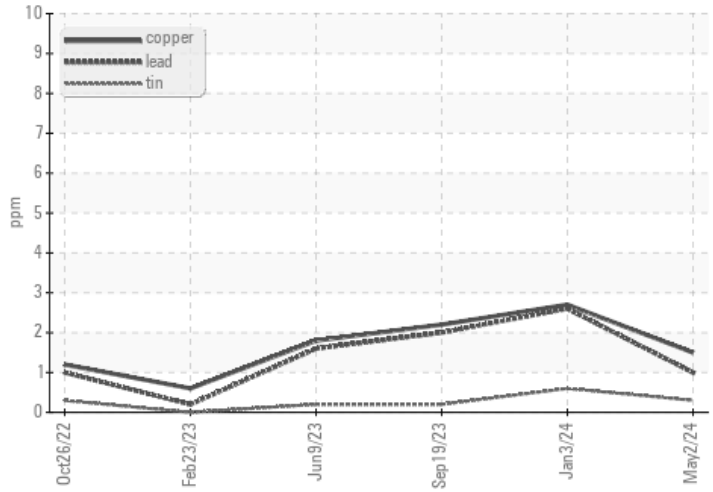
Depot: SAIBIR
Unique No: 11019891
Signed: Don Baldridge
Report Date: 14 May 2024

GRAPHS

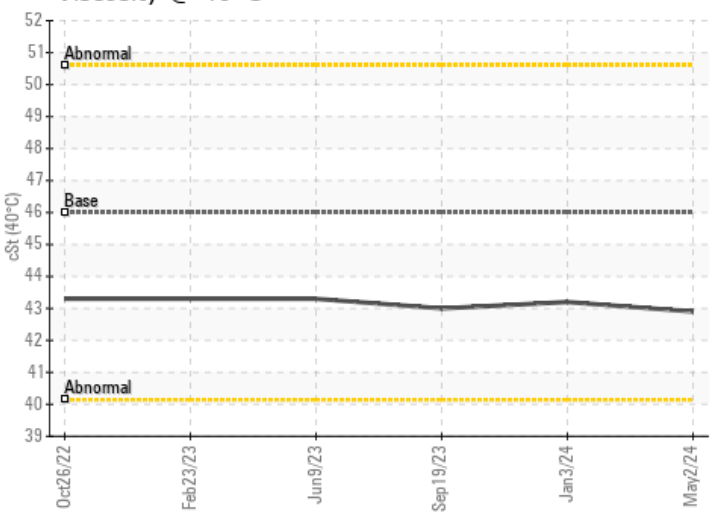
Ferrous Alloys



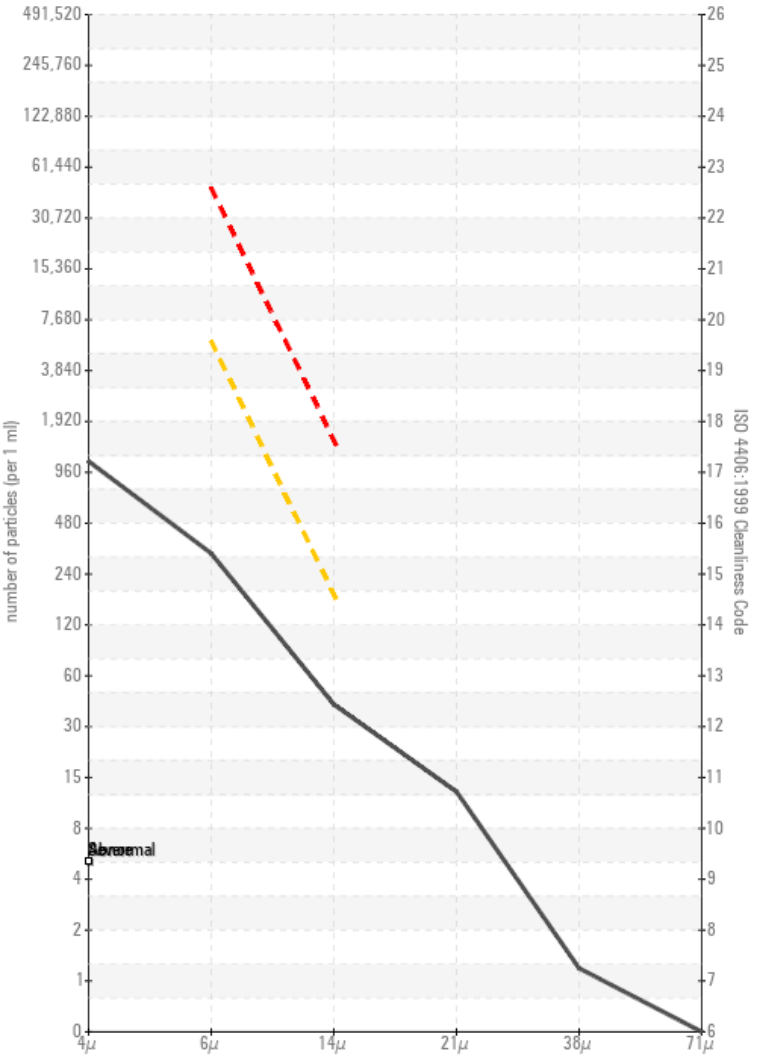
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number