



CONSTRUCTION EQUIPMENT

SWO-069182 VOLVO A45G 352639 - HYDRAULIC SYSTEM



Sample No: VCP443369
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWO-069182



SAMPLE INFORMATION

Sample Number	VCP443369	VCP427470	VCP369322	VCP410479
Sample Date	24 Jan 2024	23 Oct 2023	07 Aug 2023	12 May 2023
Machine Hours	5434	4956	4377	3923
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 40°C	cSt	44.7	44.5	43.2	42.3
Acid Number (AN)	mg KOH/g	0.39	0.38	0.36	0.38



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		1693	973	1992	193
Particles >6µm		351	190	424	84
Particles >14µm		22	27	27	14
ISO 4406:1999 (c)		18/16/12	17/15/12	18/16/12	15/14/11
Silicon	ppm	3	3	4	6
Sodium	ppm	0	1	2	1
Potassium	ppm	<1	0	<1	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	6	3	4	8
Copper	ppm	1	1	2	2
Lead	ppm	1	0	1	1
Tin	ppm	0	0	<1	0
Aluminum	ppm	2	0	<1	2
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	0	<1	<1	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	0
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	102	67	108	64
Magnesium	ppm	7	0	11	<1
Zinc	ppm	443	385	419	425
Phosphorus	ppm	339	258	334	343
Barium	ppm	0	0	<1	0
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10849415
Signed: Don Baldrige
Report Date: 30 Jan 2024

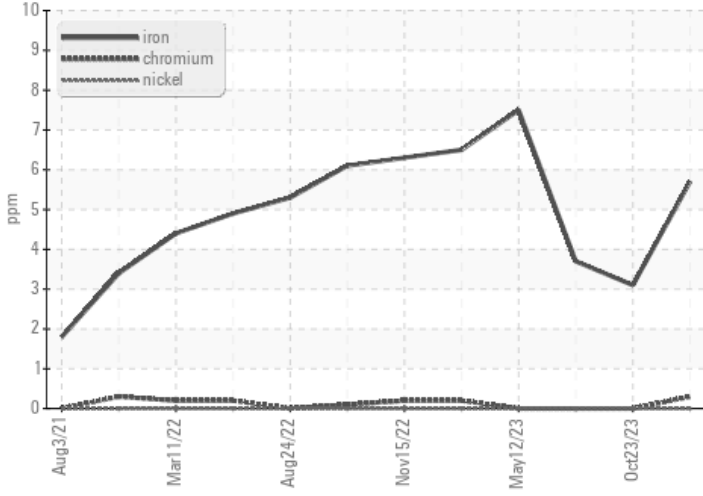


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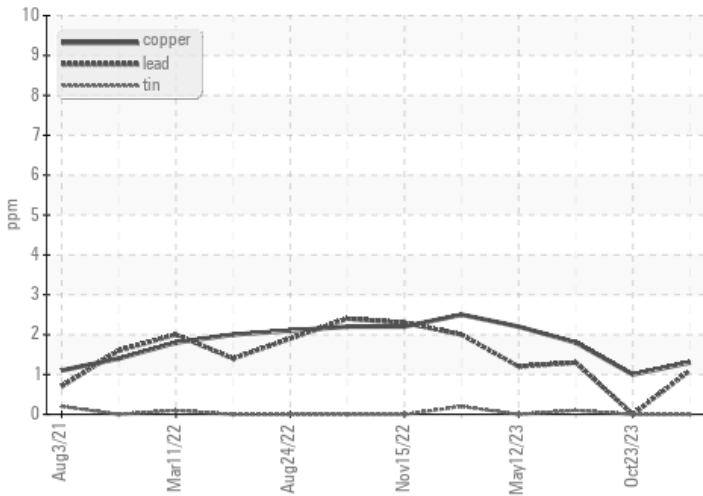


GRAPHS

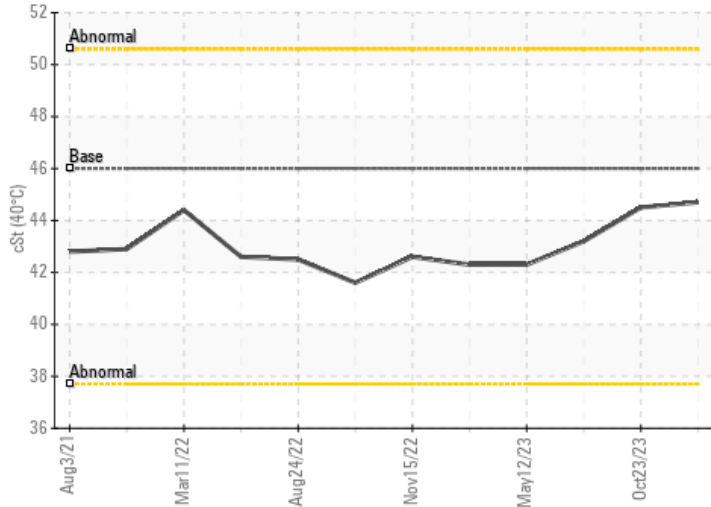
Ferrous Alloys



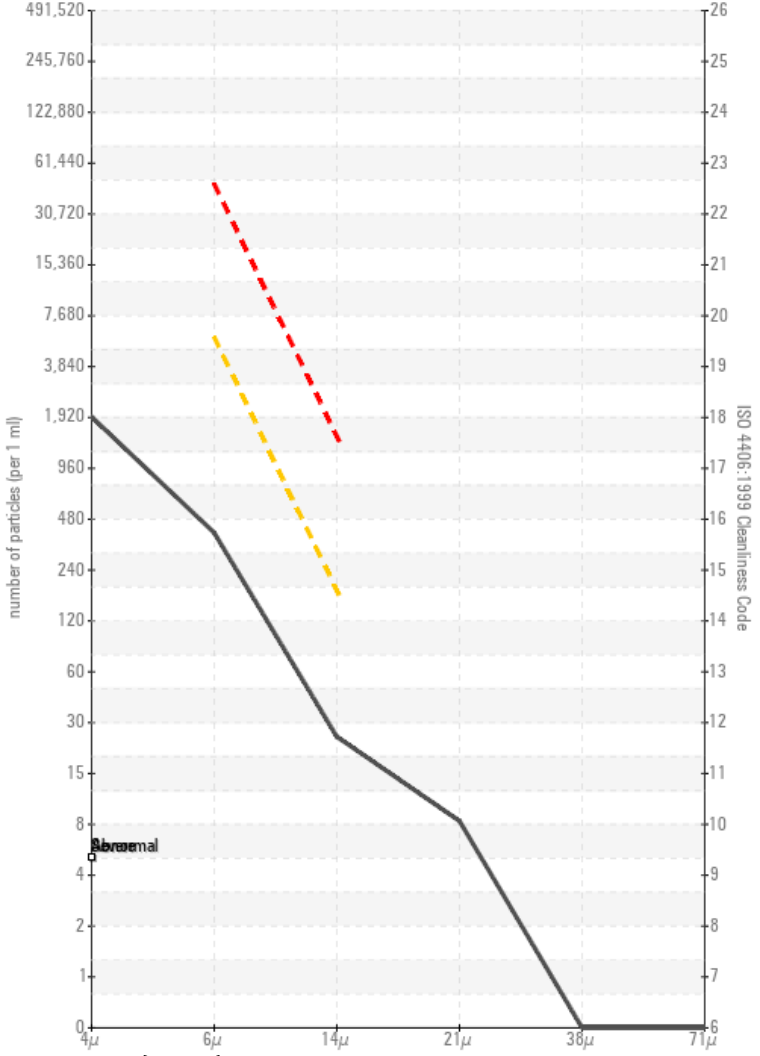
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

