



CONSTRUCTION EQUIPMENT

SWO-071204 VOLVO A40G 340716 - HYDRAULIC SYSTEM



Sample No: VCP451000
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWO-071204



SAMPLE INFORMATION

Sample Number	VCP451000	VCP431058	VCP419107	VCP396172
Sample Date	18 Apr 2024	05 Dec 2023	30 Aug 2023	26 Apr 2023
Machine Hours	9946	9440	8929	8381
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	ATTENTION	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 40°C	cSt	44.1	42.8	51.9	51.4
Acid Number (AN)	mg KOH/g	0.72	0.78	0.37	0.32



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		3825	4778	11530	1195
Particles >6µm		1644	1372	794	195
Particles >14µm		302	94	15	12
ISO 4406:1999 (c)		19/18/15	19/18/14	21/17/11	17/15/11
Silicon	ppm	1	2	2	2
Sodium	ppm	<1	<1	3	2
Potassium	ppm	0	0	<1	<1

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate 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.



WEAR METALS

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



ADDITIVES

Calcium	ppm	78	56	82	78
Magnesium	ppm	155	219	5	13
Zinc	ppm	613	701	492	423
Phosphorus	ppm	492	612	358	314
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10991246
Signed: Don Baldrige
Report Date: 24 Apr 2024

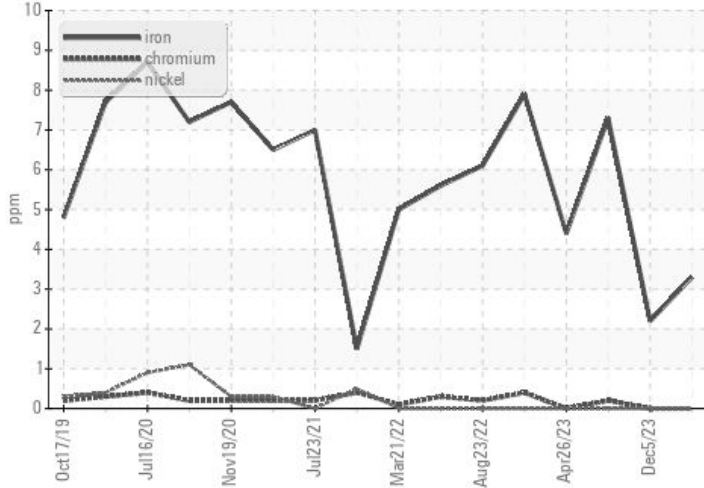


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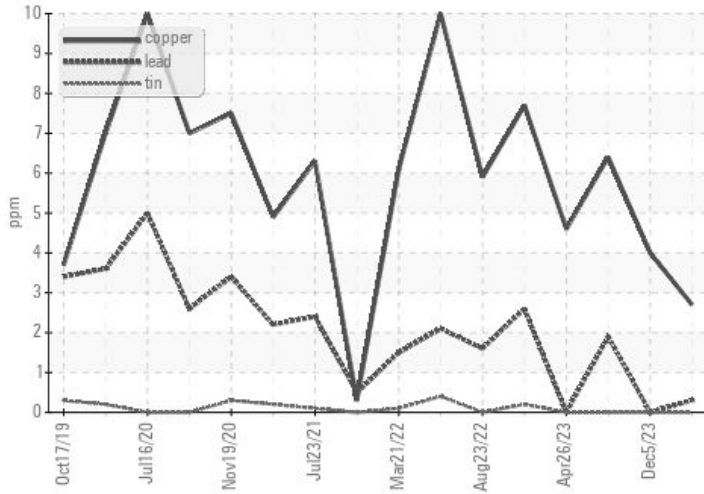


GRAPHS

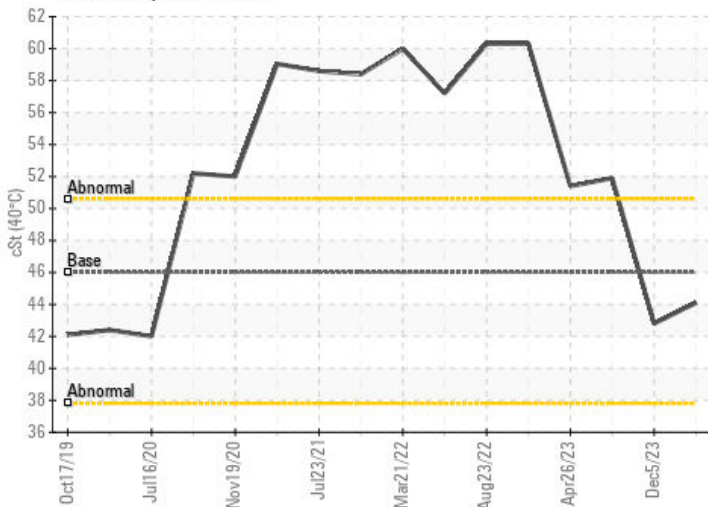
Ferrous Alloys



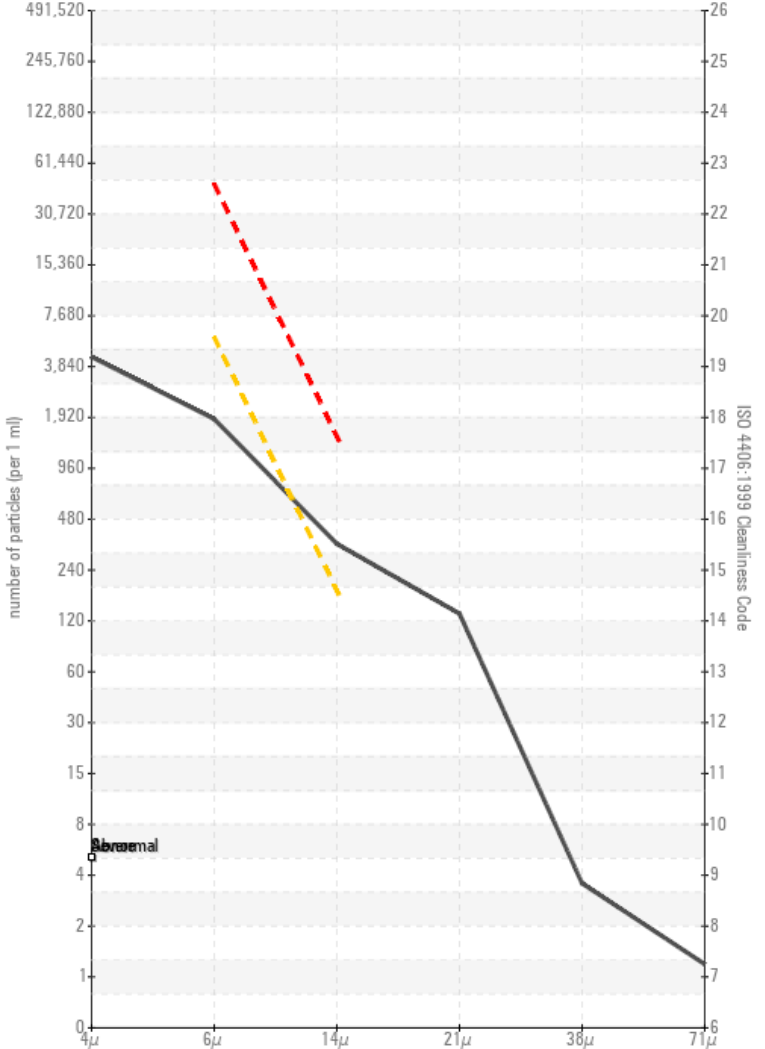
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

