



CONSTRUCTION EQUIPMENT

SWO-072394 VOLVO A45G 352639 - HYDRAULIC SYSTEM



Sample No: VCP443926
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWO-072394



SAMPLE INFORMATION

Sample Number	VCP443926	VCP443369	VCP427470	VCP369322
Sample Date	29 May 2024	24 Jan 2024	23 Oct 2023	07 Aug 2023
Machine Hours	5870	5434	4956	4377
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 40°C	cSt	44.4	44.7	44.5	43.2
Acid Number (AN)	mg KOH/g	0.30	0.39	0.38	0.36



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		1123	1693	973	1992
Particles >6µm		328	351	190	424
Particles >14µm		16	22	27	27
ISO 4406:1999 (c)		17/16/11	18/16/12	17/15/12	18/16/12
Silicon	ppm	<1	3	3	4
Sodium	ppm	2	0	1	2
Potassium	ppm	0	<1	0	<1

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



ADDITIVES

Calcium	ppm	126	102	67	108
Magnesium	ppm	4	7	0	11
Zinc	ppm	450	443	385	419
Phosphorus	ppm	351	339	258	334
Barium	ppm	0	0	0	<1
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 11059684
Signed: Don Baldrige
Report Date: 04 Jun 2024

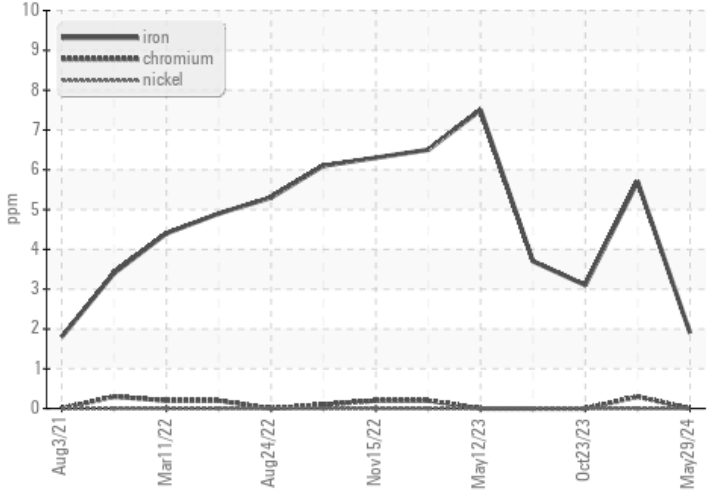


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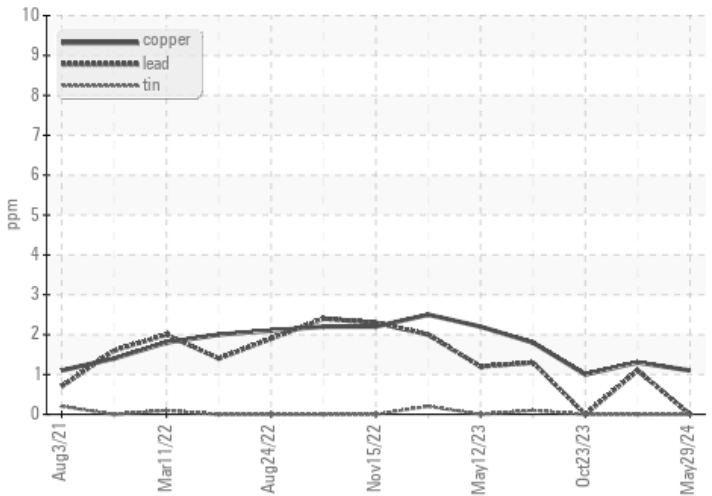


GRAPHS

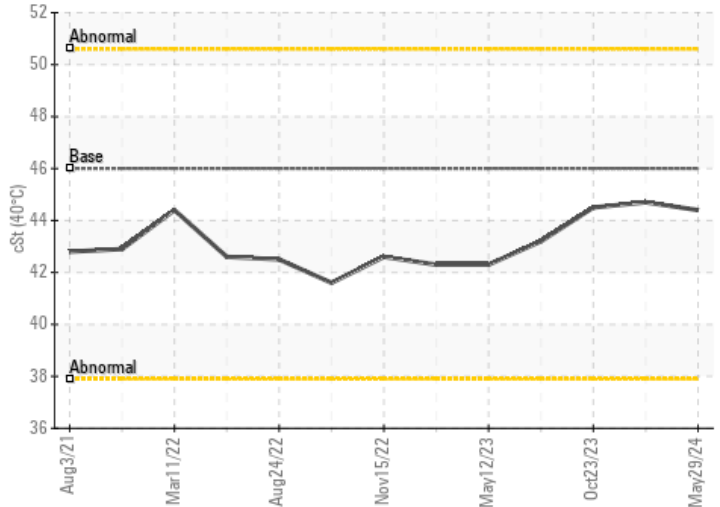
Ferrous Alloys



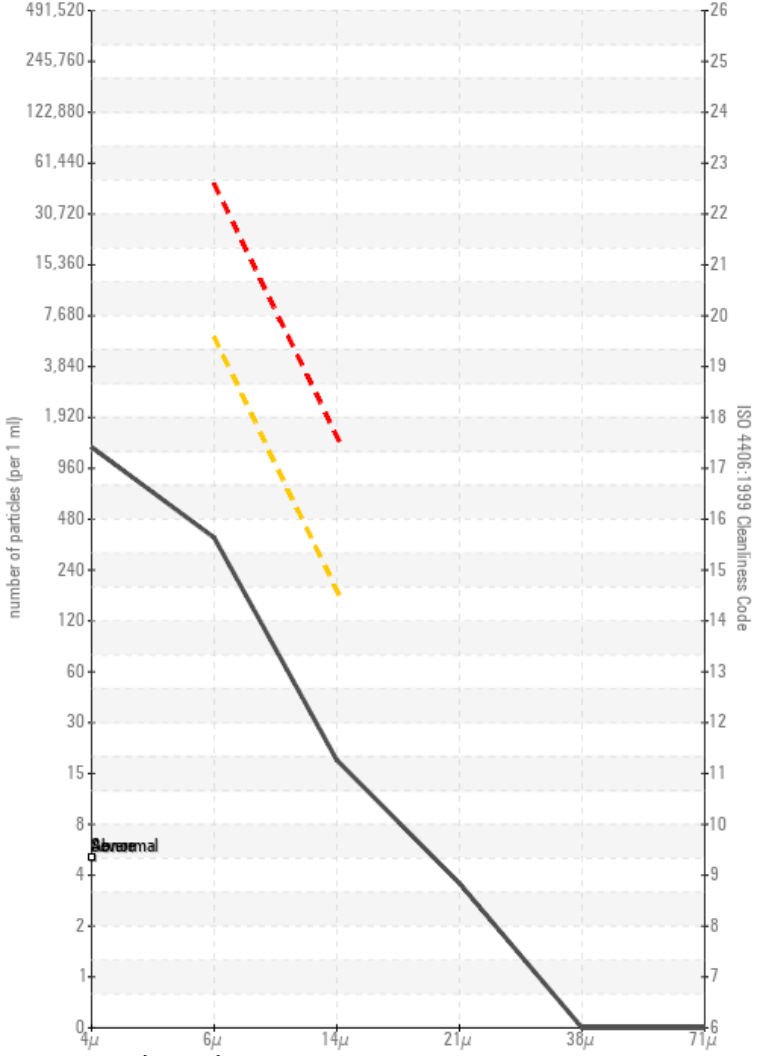
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

