



CONSTRUCTION EQUIPMENT

SWO-072452 VOLVO A30G 752677 - HYDRAULIC SYSTEM



Sample No: VCP440064
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-072452



SAMPLE INFORMATION

Sample Number	VCP440064	VCP438619	VCP435997	VCP433859
Sample Date	05 Jun 2024	07 Mar 2024	16 Nov 2023	18 Sep 2023
Machine Hours	3335	2834	2403	1919
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ATTENTION	ABNORMAL	ATTENTION

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 40°C	cSt	42.74	42.1	43.0	43.3
Acid Number (AN)	mg KOH/g	0.34	0.44	0.38	0.40



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		912	6386	14537	6200
Particles >6µm		273	2351	4824	2493
Particles >14µm		13	283	385	220
ISO 4406:1999 (c)		17/15/11	20/18/15	21/19/16	20/18/15
Silicon	ppm	3	3	3	3
Sodium	ppm	2	3	0	0
Potassium	ppm	0	2	<1	<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	7	6	6	6
Copper	ppm	3	3	3	3
Lead	ppm	0	3	2	2
Tin	ppm	0	<1	0	<1
Aluminum	ppm	0	<1	2	<1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	0	<1	<1	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	<1	0	0
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	75	53	57	53
Magnesium	ppm	1	0	1	<1
Zinc	ppm	395	374	429	411
Phosphorus	ppm	312	307	351	310
Barium	ppm	1	<1	0	0
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 11073884
Signed: Don Baldrige
Report Date: 15 Jun 2024

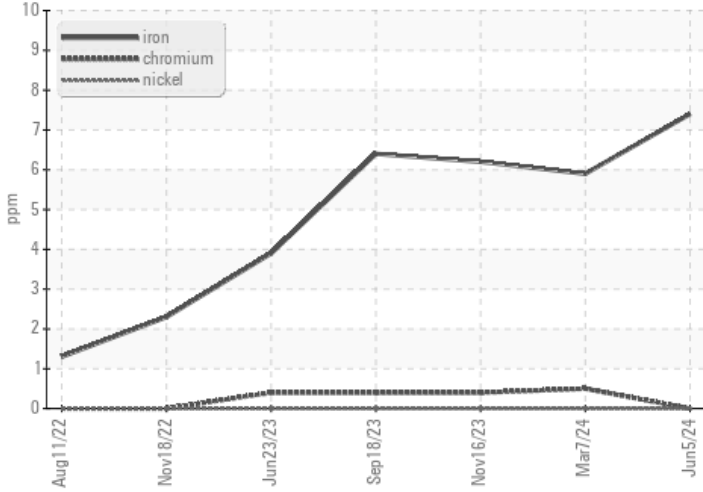


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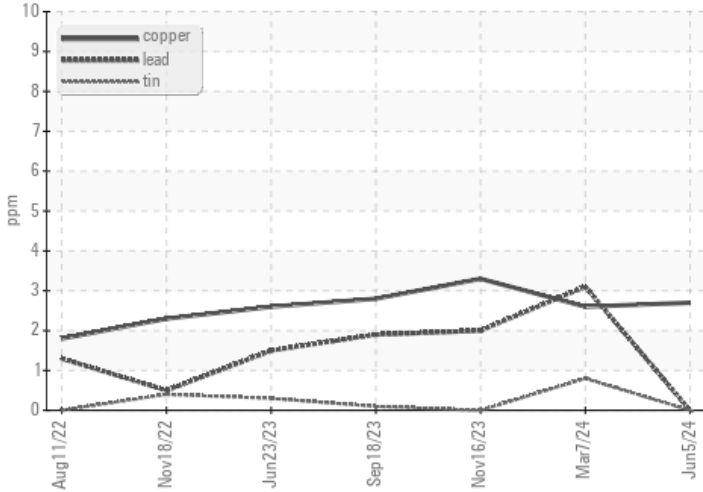


GRAPHS

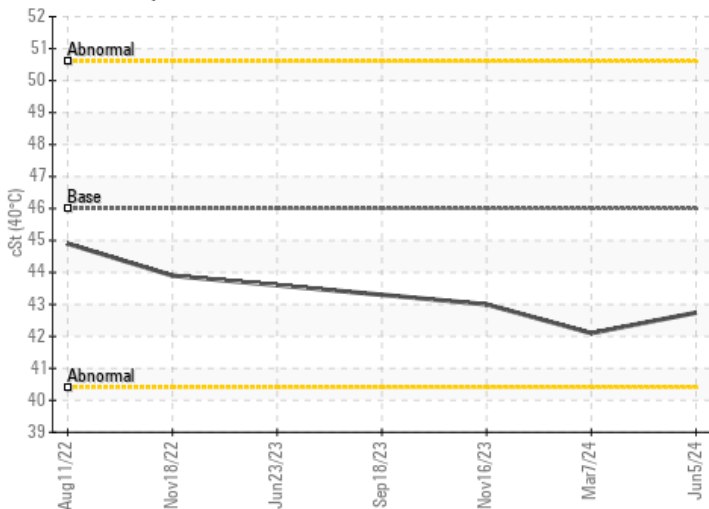
Ferrous Alloys



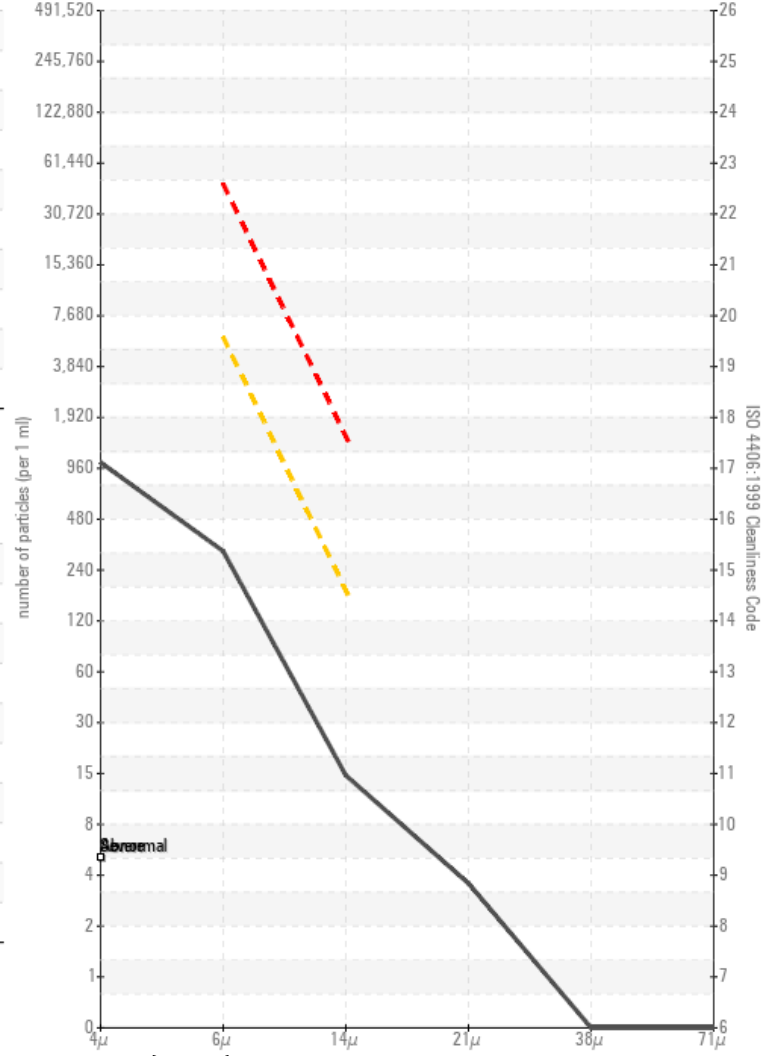
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

