



CONSTRUCTION EQUIPMENT

SWO073151 VOLVO A60H 350021 - HYDRAULIC SYSTEM



Sample No: VCP443906
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO073151



SAMPLE INFORMATION

Sample Number	VCP443906	VCP444475	VCP427450	VCP424677
Sample Date	26 Jun 2024	15 Feb 2024	25 Sep 2023	12 Jun 2023
Machine Hours	8427	7887	7398	6877
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	44.7	43.7	43.5	44.5
Acid Number (AN)	mg KOH/g	0.42	0.40	0.35	0.40

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		1214	2342	1502	1755
Particles >6µm		322	285	520	512
Particles >14µm		19	14	70	37
ISO 4406:1999 (c)		17/16/11	18/15/11	18/16/13	18/16/12
Silicon	ppm	2	2	3	3
Sodium	ppm	1	0	1	1
Potassium	ppm	<1	0	<1	<1

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.

WEAR METALS

Iron	ppm	7	6	9	5
Copper	ppm	<1	1	2	2
Lead	ppm	0	<1	1	1
Tin	ppm	0	0	0	0
Aluminum	ppm	0	0	2	<1
Chromium	ppm	<1	1	1	<1
Molybdenum	ppm	3	2	4	4
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	0	<1
Vanadium	ppm	0	0	0	<1

ADDITIVES

Calcium	ppm	112	110	116	116
Magnesium	ppm	15	17	16	15
Zinc	ppm	441	445	472	462
Phosphorus	ppm	345	317	344	366
Barium	ppm	0	0	0	0
Boron	ppm	2	0	1	1

Depot: SAIBIR
Unique No: 11113594
Signed: Don Baldrige
Report Date: 09 Jul 2024

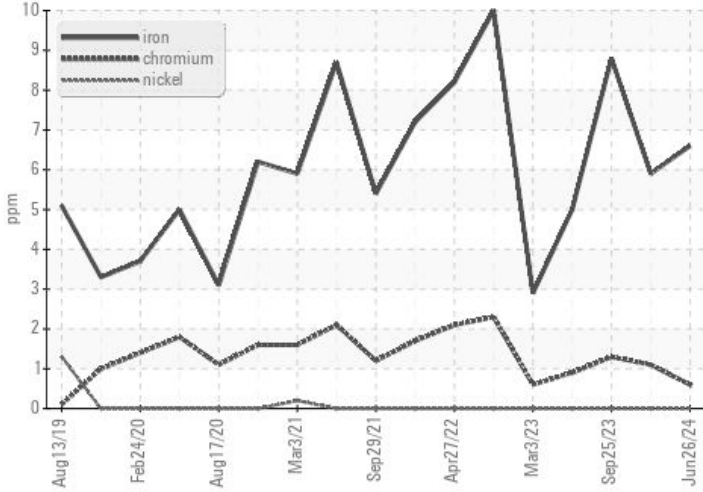


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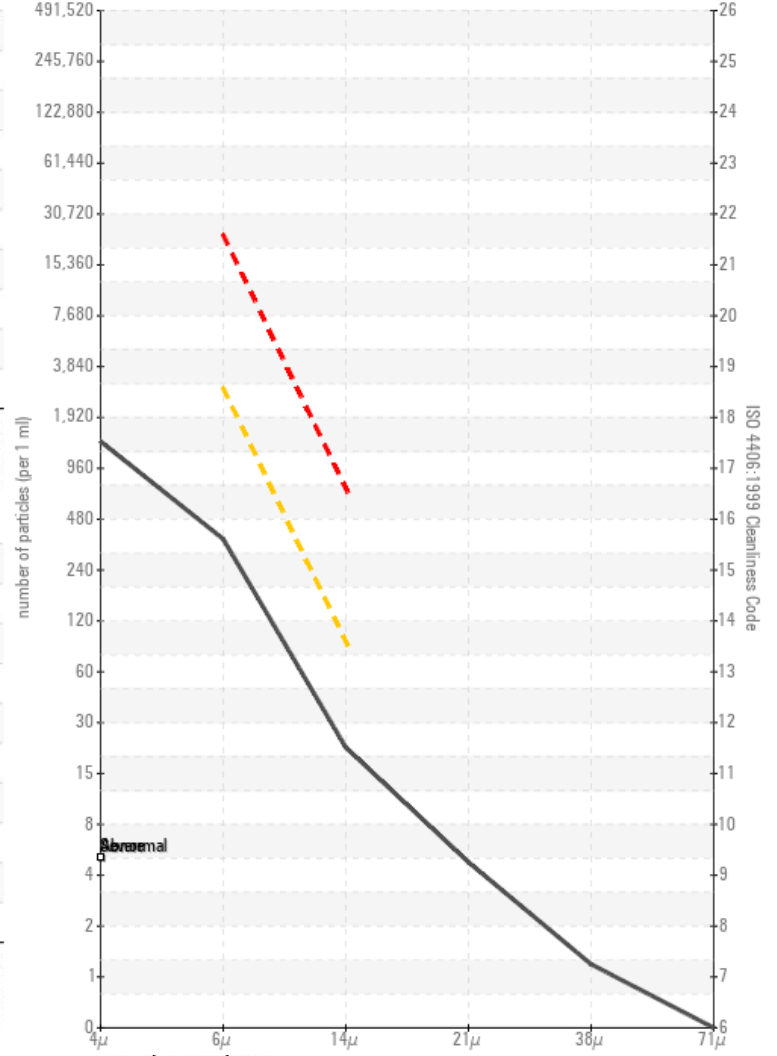


GRAPHS

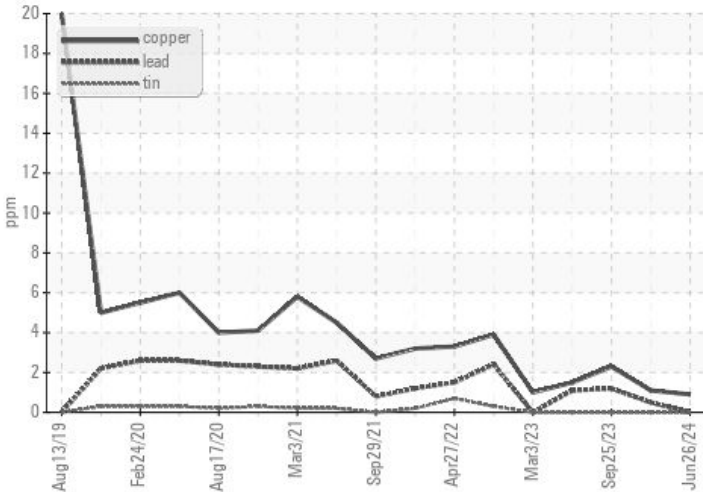
Ferrous Alloys



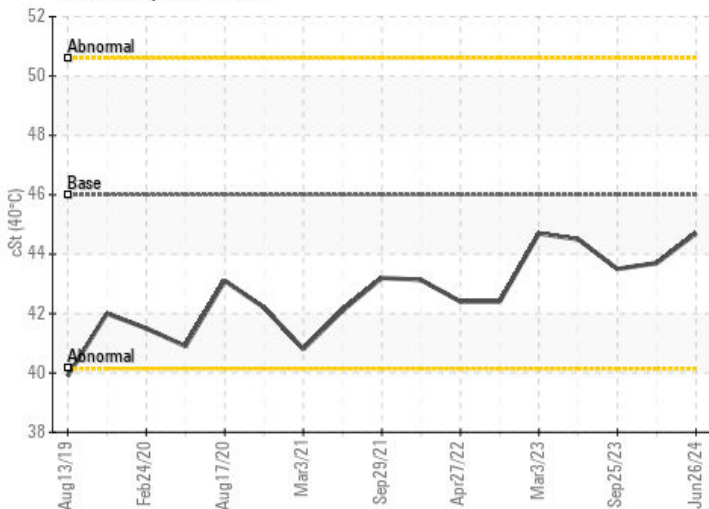
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

