



CONSTRUCTION EQUIPMENT

SWO-069192 VOLVO A60H 340044 - HYDRAULIC SYSTEM



Sample No: VCP441618
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-069192



SAMPLE INFORMATION

Sample Number	VCP441618	VCP414082	VCP410143	VCP392789
Sample Date	01 Feb 2024	04 Aug 2023	11 May 2023	21 Feb 2023
Machine Hours	9302	8791	8303	7835
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	ATTENTION	ABNORMAL	ABNORMAL	ATTENTION

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OIL CONDITION

Visc @ 40°C	cSt	45.5	44.4	44.6	42.5
Acid Number (AN)	mg KOH/g	0.45	0.37	0.40	0.35



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		▲ 6295	▲ 11933	---	▲ 6990
Particles >6µm		▲ 1899	▲ 3153	---	▲ 1886
Particles >14µm		▲ 181	■ 137	---	■ 135
ISO 4406:1999 (c)		20/18/15	21/19/14	---	20/18/14
Silicon	ppm	■ 2	■ 3	■ 3	■ 3
Sodium	ppm	■ <1	■ 3	■ 1	■ <1
Potassium	ppm	■ 3	■ 2	■ 0	■ 0

Diagnosis
 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	■ 2	■ 10	■ 10	■ 15
Copper	ppm	■ 2	■ 4	■ 3	■ 4
Lead	ppm	■ <1	■ <1	■ 0	■ 0
Tin	ppm	■ <1	■ 0	■ 0	■ 0
Aluminum	ppm	■ 1	■ <1	■ 2	■ 1
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 6	■ 1	■ 1	■ 1
Nickel	ppm	■ <1	■ 0	■ 0	■ 0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ <1	■ <1	■ 0	■ <1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	■ 124	■ 112	■ 120	■ 139
Magnesium	ppm	■ 28	■ 13	■ 12	■ 17
Zinc	ppm	■ 473	■ 460	■ 457	■ 459
Phosphorus	ppm	■ 370	■ 372	■ 380	■ 366
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 1	■ 0	■ 0	■ 0

Depot: SAIBIR
Unique No: 10863387
Signed: Don Baldrige
Report Date: 08 Feb 2024

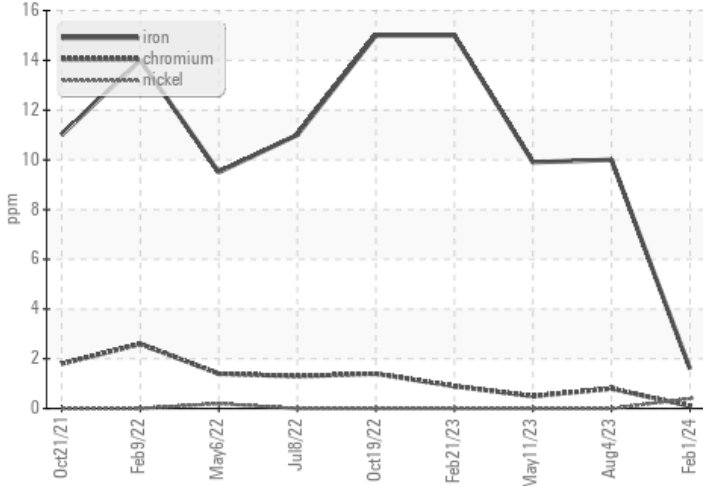


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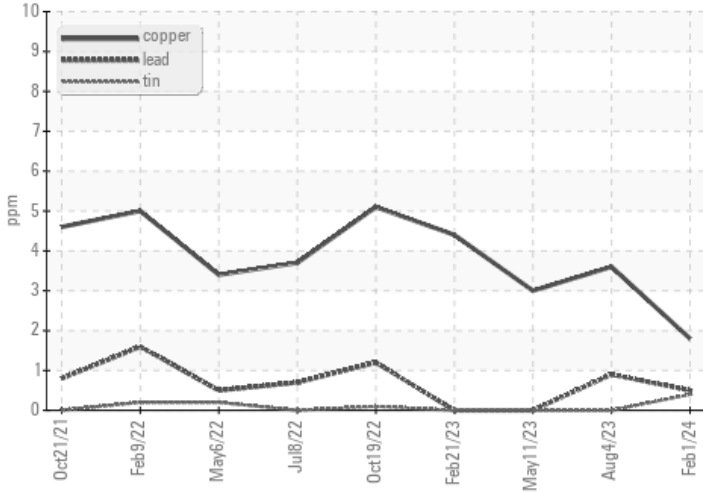


GRAPHS

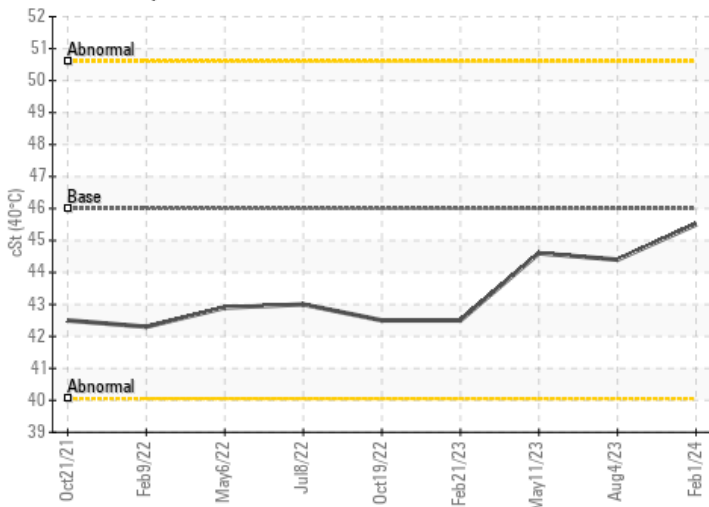
Ferrous Alloys



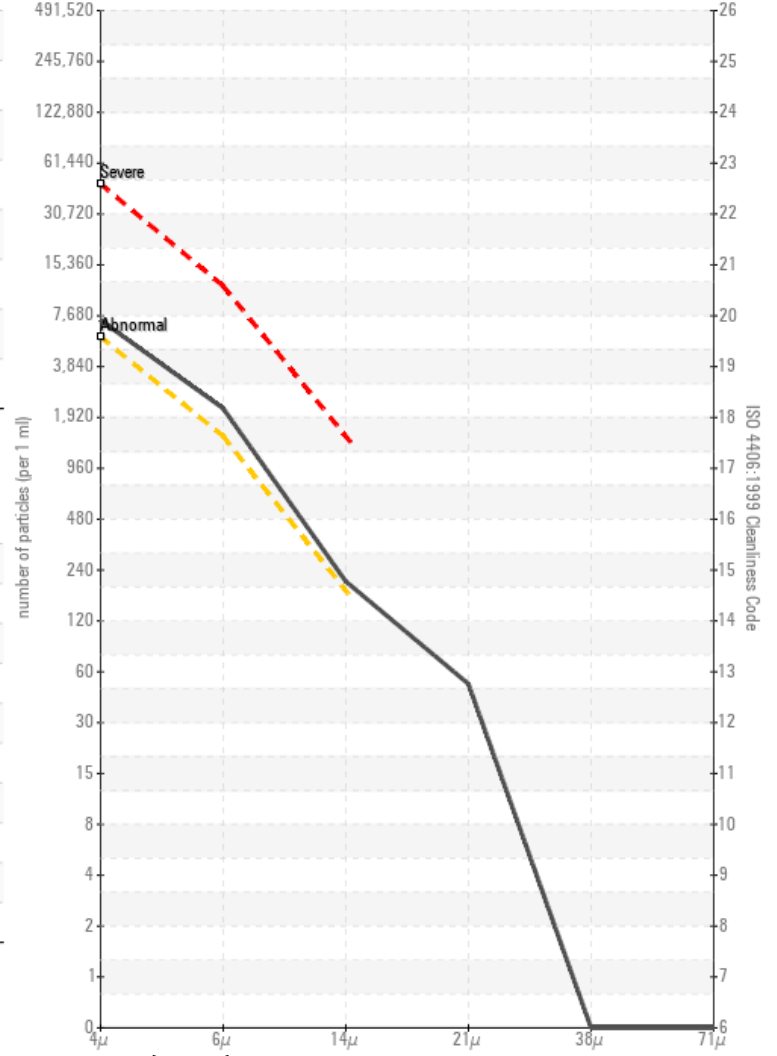
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

