



CONSTRUCTION EQUIPMENT

SWO-072403 VOLVO A60H 340044 - HYDRAULIC SYSTEM



Sample No: VCP439803
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-072403



SAMPLE INFORMATION

Sample Number	VCP439803	VCP441618	VCP414082	VCP410143
Sample Date	31 May 2024	01 Feb 2024	04 Aug 2023	11 May 2023
Machine Hours	9784	9302	8791	8303
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ATTENTION	ATTENTION	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	44.5	45.5	44.4	44.6
Acid Number (AN)	mg KOH/g	0.44	0.45	0.37	0.40



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		8265	6295	11933	---
Particles >6µm		2214	1899	3153	---
Particles >14µm		97	181	137	---
ISO 4406:1999 (c)		20/18/14	20/18/15	21/19/14	---
Silicon	ppm	2	2	3	3
Sodium	ppm	0	<1	3	1
Potassium	ppm	<1	3	2	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	5	2	10	10
Copper	ppm	2	2	4	3
Lead	ppm	<1	<1	<1	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	2	1	<1	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	5	6	1	1
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	0
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	116	124	112	120
Magnesium	ppm	26	28	13	12
Zinc	ppm	447	473	460	457
Phosphorus	ppm	348	370	372	380
Barium	ppm	0	0	0	0
Boron	ppm	2	1	0	0

Depot: SAIBIR
Unique No: 11070796
Signed: Angela Borella
Report Date: 11 Jun 2024

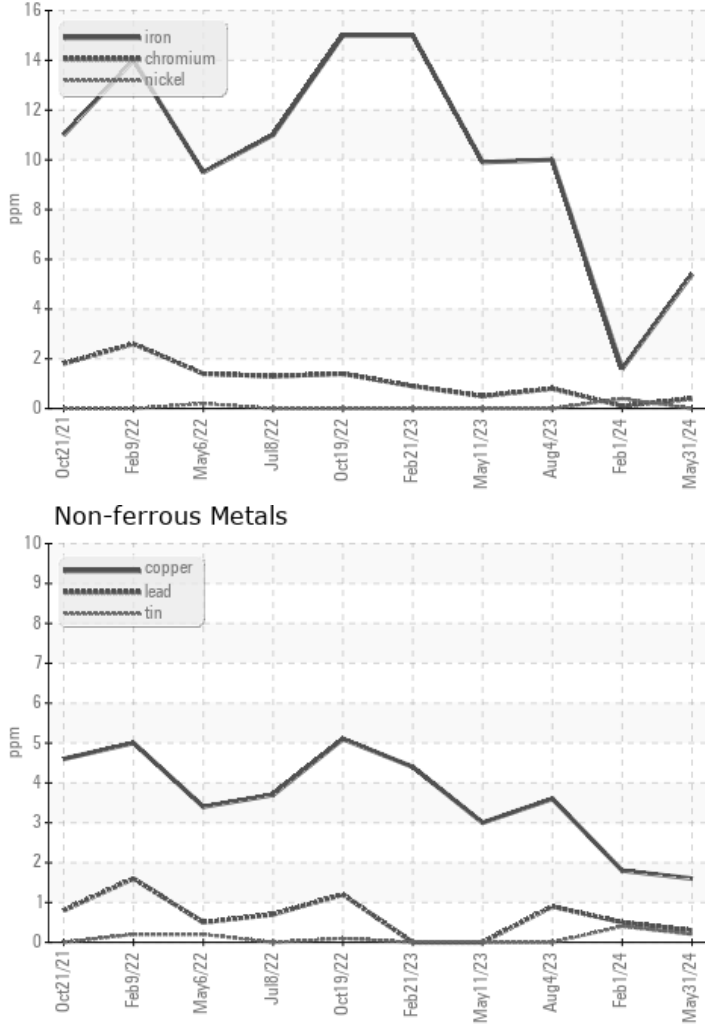


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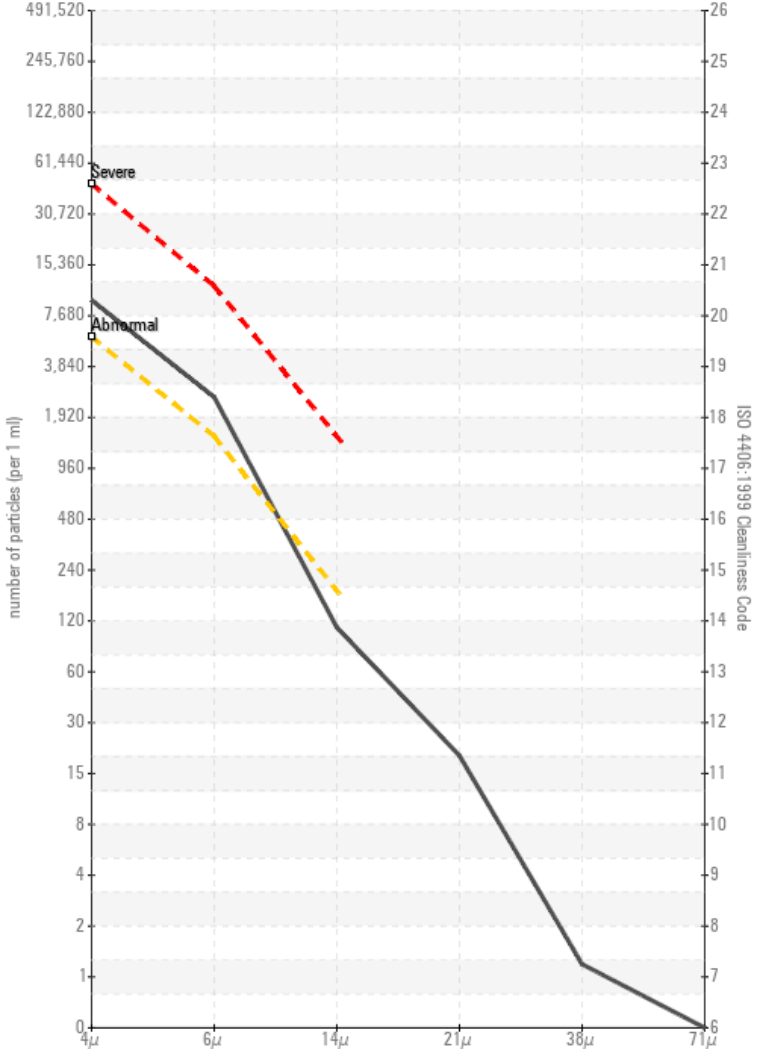


VOLVO GRAPHS

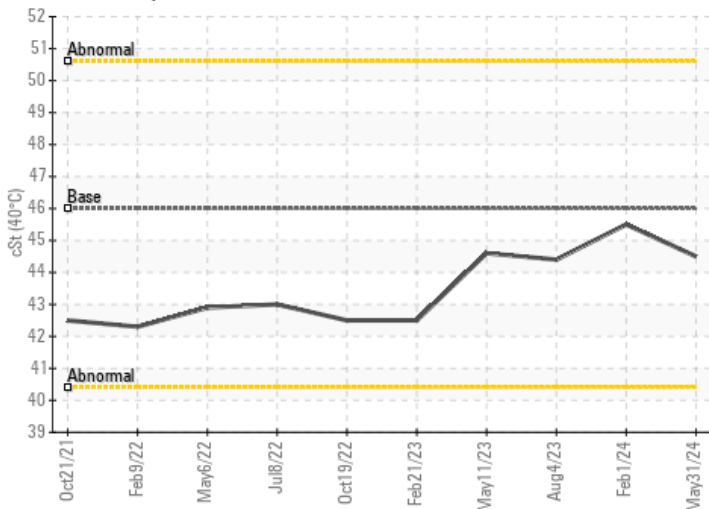
Ferrous Alloys



Particle Count



Viscosity @ 40°C



Acid Number

