



# CONSTRUCTION EQUIPMENT

## VOLVO A40F 1 1927 - HYDRAULIC SYSTEM



**Sample No:** VCP312937

**Oil Type:** MOBIL 10W

**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP312937</b>	VCP373659	VCP378260	VCP358319
Sample Date	<b>01 Sep 2023</b>	24 Jan 2023	26 Sep 2022	14 Jul 2022
Machine Hours	<b>25041</b>	23982	23399	22926
Oil Hours	<b>1642</b>	583	2059	1586
Oil Changed	<b>Not Chngd</b>	Changed	Changed	Not Chngd
Sample Status	<b>ABNORMAL</b>	ABNORMAL	NORMAL	NORMAL



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### OIL CONDITION

Visc @ 40°C	cSt	<b>40.1</b>	39.6	39.8	39.9
Acid Number (AN)	mg KOH/g	<b>1.37</b>	1.35	1.28	1.27



### CONTAMINATION

Particles >4µm		<b>66022</b>	62161	25924	6810
Particles >6µm		<b>15497</b>	16567	4321	471
Particles >14µm		<b>676</b>	649	98	33
ISO 4406:1999 (c)		<b>23/21/17</b>	23/21/17	22/19/14	20/16/12
Silicon	ppm	<b>18</b>	12	14	11
Sodium	ppm	<b>3</b>	2	3	<1
Potassium	ppm	<b>0</b>	0	0	0

### Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high 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	<b>8</b>	6	4	3
Copper	ppm	<b>1</b>	<1	<1	<1
Lead	ppm	<b>1</b>	0	<1	<1
Tin	ppm	<b>0</b>	0	<1	<1
Aluminum	ppm	<b>&lt;1</b>	2	2	1
Chromium	ppm	<b>0</b>	0	2	<1
Molybdenum	ppm	<b>2</b>	2	2	2
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	<1	0
Silver	ppm	<b>0</b>	<1	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>3256</b>	3093	3451	3365
Magnesium	ppm	<b>30</b>	23	25	26
Zinc	ppm	<b>1134</b>	985	1249	1151
Phosphorus	ppm	<b>913</b>	806	985	919
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>2</b>	1	0	3

**Depot:** SCHGRE  
**Unique No:** 10671863  
**Signed:** Don Baldrige  
**Report Date:** 02 Oct 2023

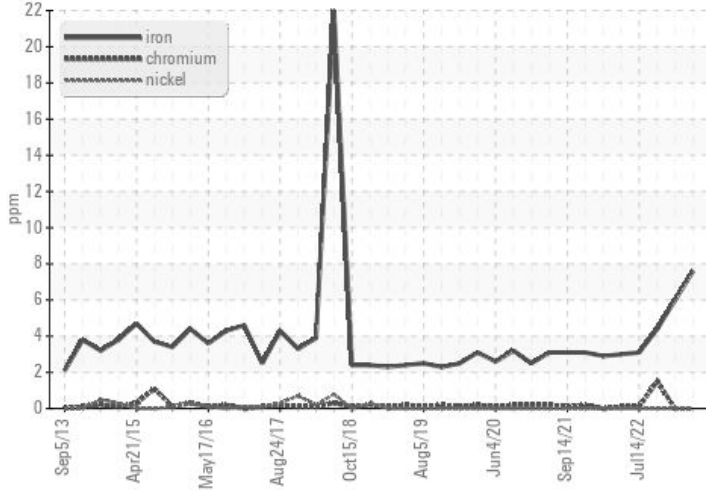


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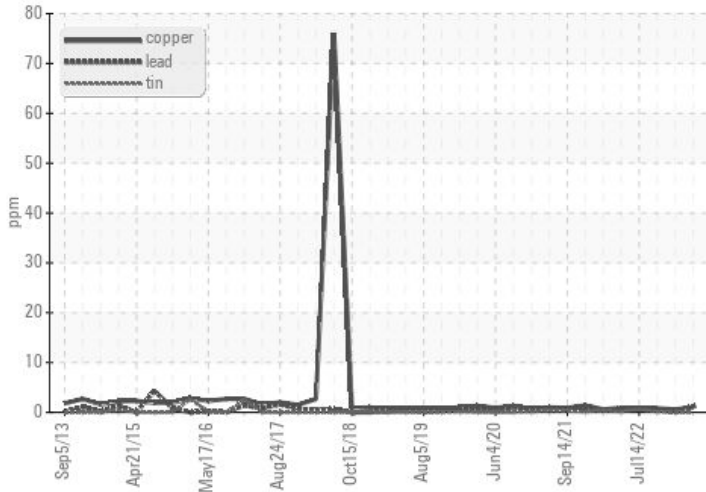


## VOLVO GRAPHS

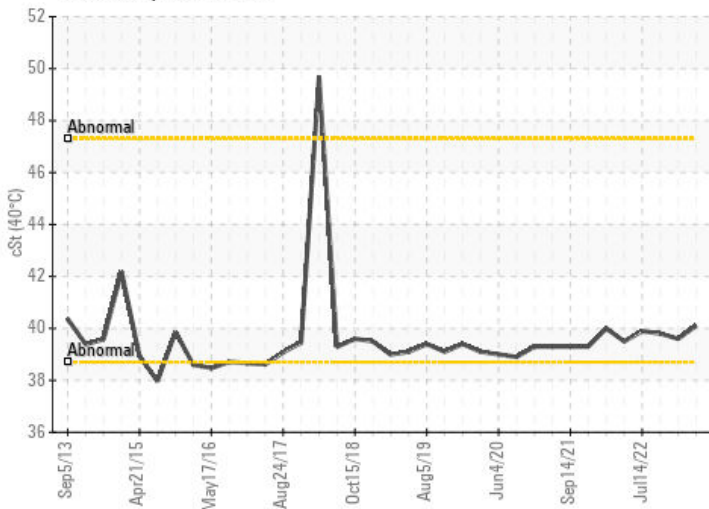
Ferrous Alloys



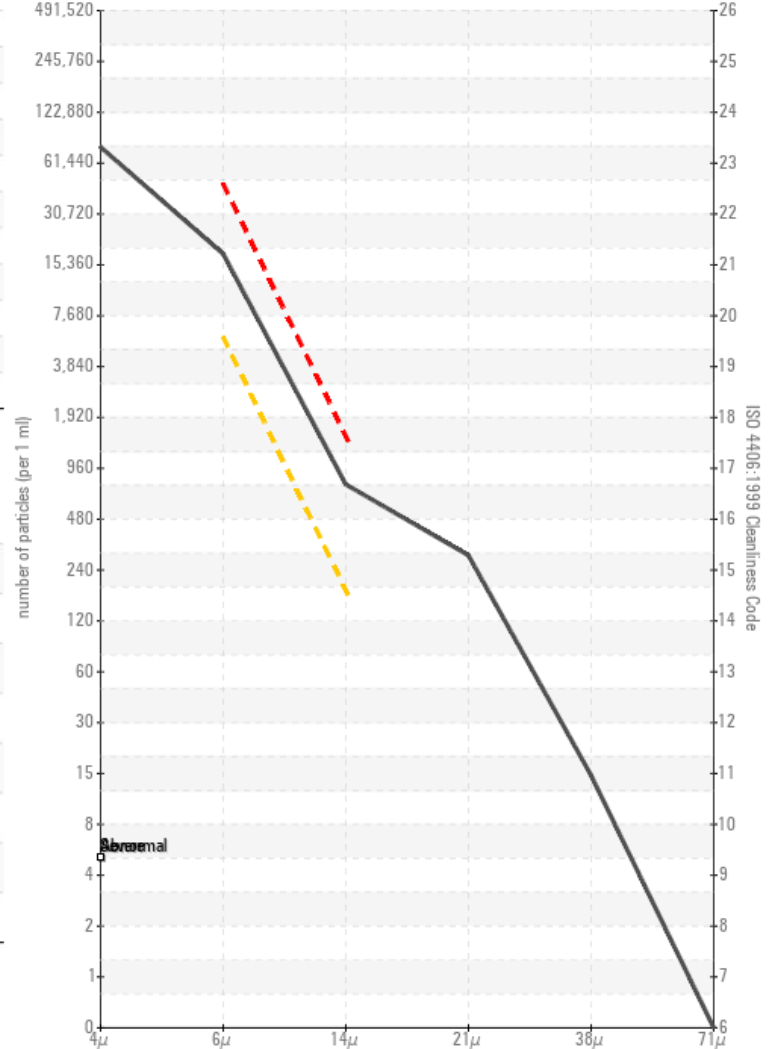
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

