



# CONSTRUCTION EQUIPMENT

## VOLVO A40F 12382 - HYDRAULIC SYSTEM



**Sample No:** VCP307521  
**Oil Type:** MOBIL 10W  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP307521</b>	VCP312564	VCP385202	VCP358441
Sample Date	<b>30 Jan 2024</b>	01 Sep 2023	24 Jan 2023	14 Jul 2022
Machine Hours	<b>14544</b>	13992	12493	11416
Oil Hours	<b>1525</b>	973	1371	294
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Not Chngd
Sample Status	<b>ABNORMAL</b>	NORMAL	ABNORMAL	ATTENTION

**SCHILDBERG CONSTRUCTION COMPANY**  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>39.9</b>	39.5	39.7	44.6
Acid Number (AN)	mg KOH/g	<b>1.15</b>	1.16	1.23	1.12



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		---	15509	51640	12518
Particles >6µm		---	2365	15709	3316
Particles >14µm		---	77	668	210
ISO 4406:1999 (c)		---	21/18/13	23/21/17	21/19/15
Silicon	ppm	<b>16</b>	13	11	10
Sodium	ppm	<b>6</b>	4	4	2
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. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris 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>4</b>	5	4	4
Copper	ppm	<b>3</b>	2	2	2
Lead	ppm	<b>&lt;1</b>	1	0	<1
Tin	ppm	<b>0</b>	<1	0	<1
Aluminum	ppm	<b>4</b>	<1	3	2
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>&lt;1</b>	<1	<1	1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>2445</b>	2480	2464	2751
Magnesium	ppm	<b>14</b>	24	17	20
Zinc	ppm	<b>939</b>	1060	980	1119
Phosphorus	ppm	<b>829</b>	846	809	889
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>6</b>	6	5	9

**Depot:** SCHGRE  
**Unique No:** 10898317  
**Signed:** Don Baldrige  
**Report Date:** 27 Feb 2024

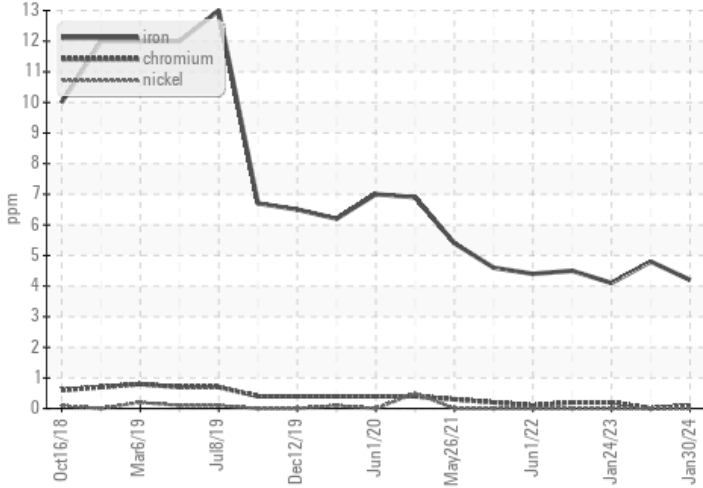


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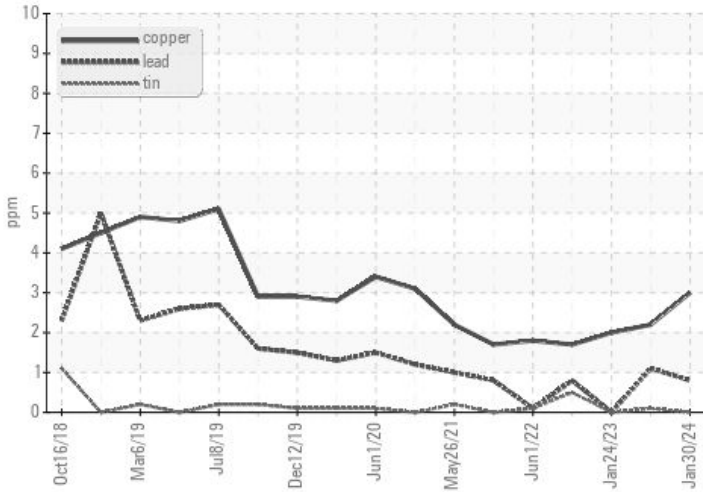


## GRAPHS

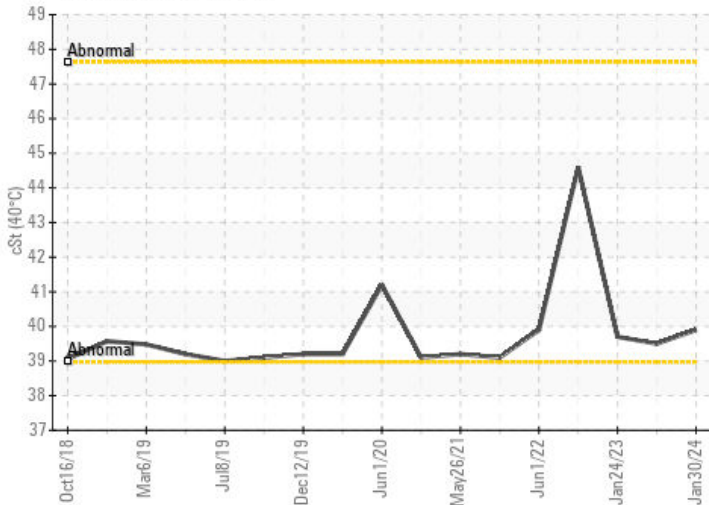
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C



### Acid Number

