



# CONSTRUCTION EQUIPMENT

## VOLVO A40F 12386 - HYDRAULIC SYSTEM



**Sample No:** VCP435807  
**Oil Type:** MOBIL 10W  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP435807</b>	VCP404901	VCP385091	VCP373678
Sample Date	<b>22 Feb 2024</b>	22 Mar 2023	06 Dec 2022	21 Sep 2022
Machine Hours	<b>12894</b>	10781	10272	9856
Oil Hours	<b>1512</b>	1398	889	473
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Not Chngd
Sample Status	<b>ABNORMAL</b>	NORMAL	ABNORMAL	ATTENTION

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### OIL CONDITION

Visc @ 40°C	cSt	<b>38.6</b>	40.0	40.1	40.37
Acid Number (AN)	mg KOH/g	<b>1.47</b>	1.29	1.31	1.26



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>29287</b>	12020	37015	23523
Particles >6µm		<b>9435</b>	3029	12743	5165
Particles >14µm		<b>596</b>	101	708	143
ISO 4406:1999 (c)		<b>22/20/16</b>	21/19/14	22/21/17	22/20/14
Silicon	ppm	<b>10</b>	13	16	12
Sodium	ppm	<b>2</b>	0	3	0
Potassium	ppm	<b>0</b>	2	0	2

### 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>1</b>	3	2	3
Copper	ppm	<b>&lt;1</b>	1	<1	<1
Lead	ppm	<b>0</b>	<1	2	<1
Tin	ppm	<b>0</b>	0	6	<1
Aluminum	ppm	<b>1</b>	<1	4	2
Chromium	ppm	<b>0</b>	0	<1	<1
Molybdenum	ppm	<b>2</b>	1	2	1
Nickel	ppm	<b>0</b>	<1	<1	0
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>3239</b>	3109	3414	3018
Magnesium	ppm	<b>20</b>	17	22	16
Zinc	ppm	<b>1017</b>	1128	1215	1093
Phosphorus	ppm	<b>875</b>	929	1035	916
Barium	ppm	<b>0</b>	0	0	2
Boron	ppm	<b>0</b>	<1	4	3

**Depot:** SCHGRE  
**Unique No:** 11004994  
**Signed:** Don Baldrige  
**Report Date:** 02 May 2024

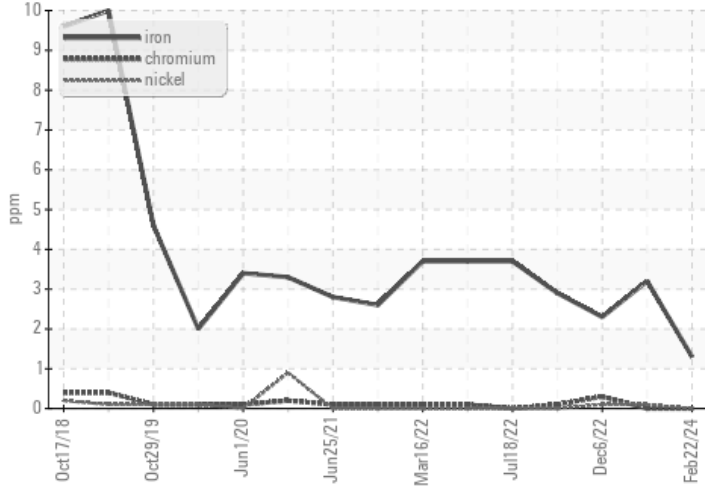


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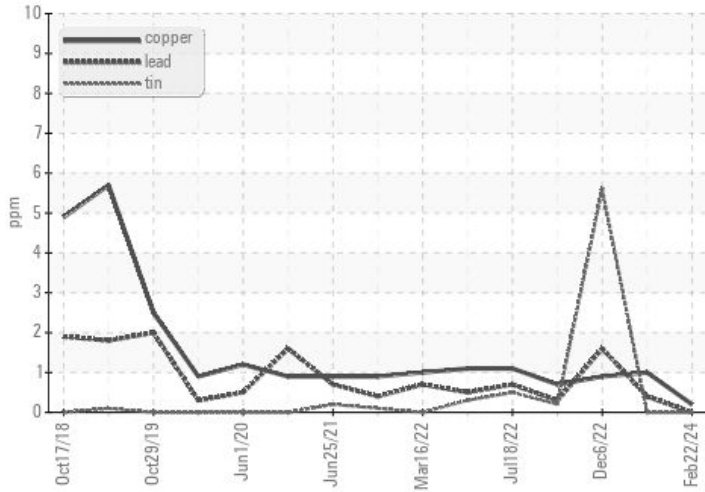


## VOLVO GRAPHS

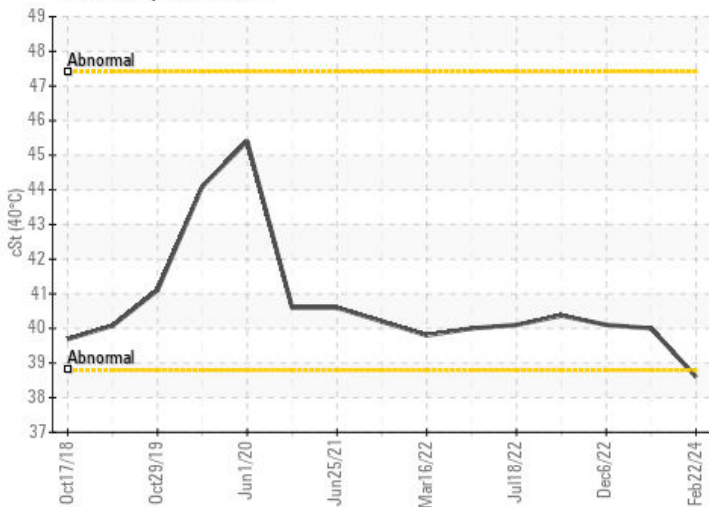
Ferrous Alloys



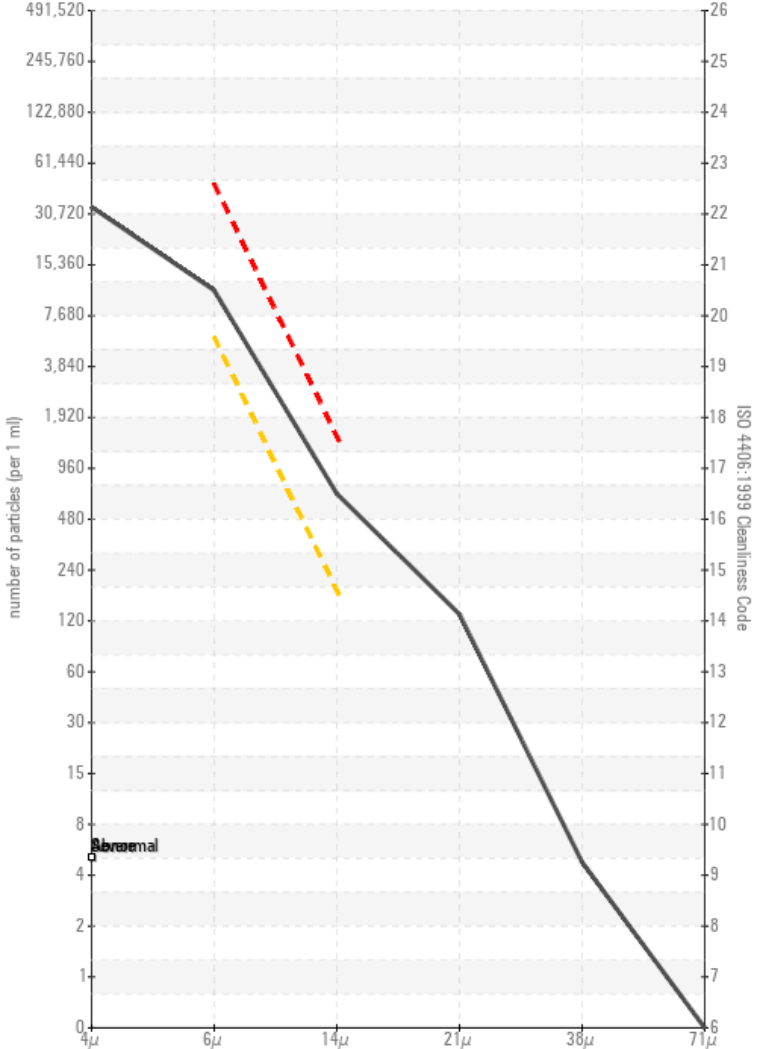
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

