



# CONSTRUCTION EQUIPMENT

## W05004186 VOLVO A40F 11613 - HYDRAULIC SYSTEM



**Sample No:** VCP412080  
**Oil Type:** MOBIL HYDRAULIC OIL AW 46  
**Job No:** W05004186



### SAMPLE INFORMATION

Sample Number	<b>VCP412080</b>	VCP195605	VCP199355	---
Sample Date	<b>23 Apr 2024</b>	23 May 2017	30 Aug 2016	---
Machine Hours	<b>15926</b>	6189	4160	---
Oil Hours	<b>2000</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	ABNORMAL	NORMAL	---

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### OIL CONDITION

Visc @ 40°C	cSt	<b>44.7</b>	41.87	39.93	---
Acid Number (AN)	mg KOH/g	<b>0.70</b>	0.405	0.581	---



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Particles 5-15µm	count	---	218698	---	---
Particles 15-25µm	count	---	40594	---	---
Particles 25-50µm	count	---	13106	---	---
Particles 50-100µm	count	---	227	---	---
Particles > 100µm	count	---	161	---	---
NAS Code		---	11	---	---
Particles >4µm		<b>1564</b>	6986	713	---
Particles >6µm		<b>88</b>	2877	388	---
Particles >14µm		<b>12</b>	548	66	---
ISO 4406:1999 (c)		<b>18/14/11</b>	20/19/16	17/16/13	---
Silicon	ppm	<b>13</b>	13	19	---
Sodium	ppm	<b>&lt;1</b>	<1	2	---
Potassium	ppm	<b>0</b>	0	<1	---

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### WEAR METALS

Iron	ppm	<b>3</b>	6	9	---
Copper	ppm	<b>1</b>	4	6	---
Lead	ppm	<b>0</b>	2	<1	---
Tin	ppm	<b>&lt;1</b>	0	1	---
Aluminum	ppm	<b>3</b>	1	<1	---
Chromium	ppm	<b>&lt;1</b>	<1	<1	---
Molybdenum	ppm	<b>3</b>	<1	<1	---
Nickel	ppm	<b>0</b>	0	0	---
Titanium	ppm	<b>&lt;1</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>1361</b>	177	177	---
Magnesium	ppm	<b>31</b>	3	2	---
Zinc	ppm	<b>532</b>	423	435	---
Phosphorus	ppm	<b>642</b>	364	353	---
Barium	ppm	<b>&lt;1</b>	0	0	---
Boron	ppm	<b>7</b>	2	3	---

**Depot:** VOLVO0002  
**Unique No:** 11019883  
**Signed:** Jonathan Hester  
**Report Date:** 16 May 2024

Contact/Location: MIKE MAYHUGH - VOLVO0002

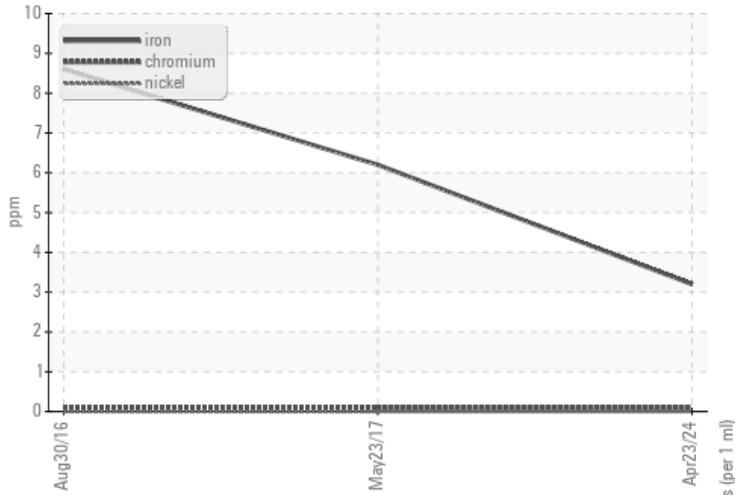


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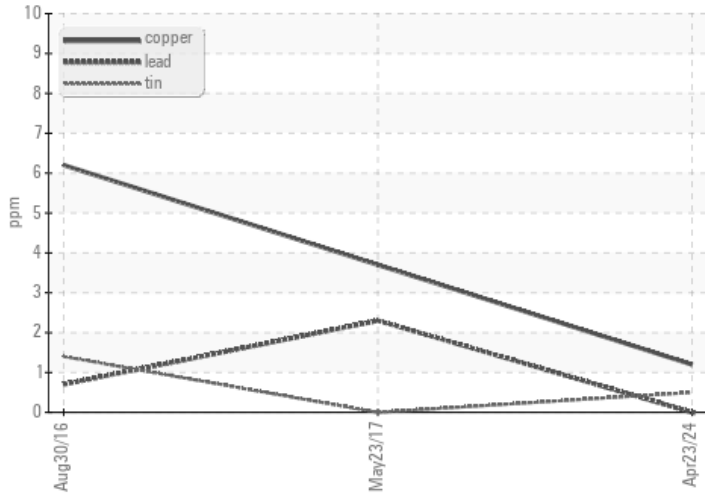


## VOLVO GRAPHS

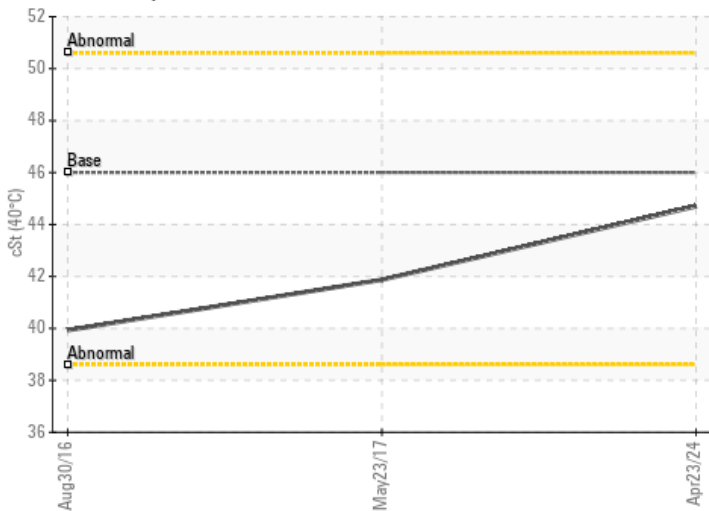
### Ferrous Alloys



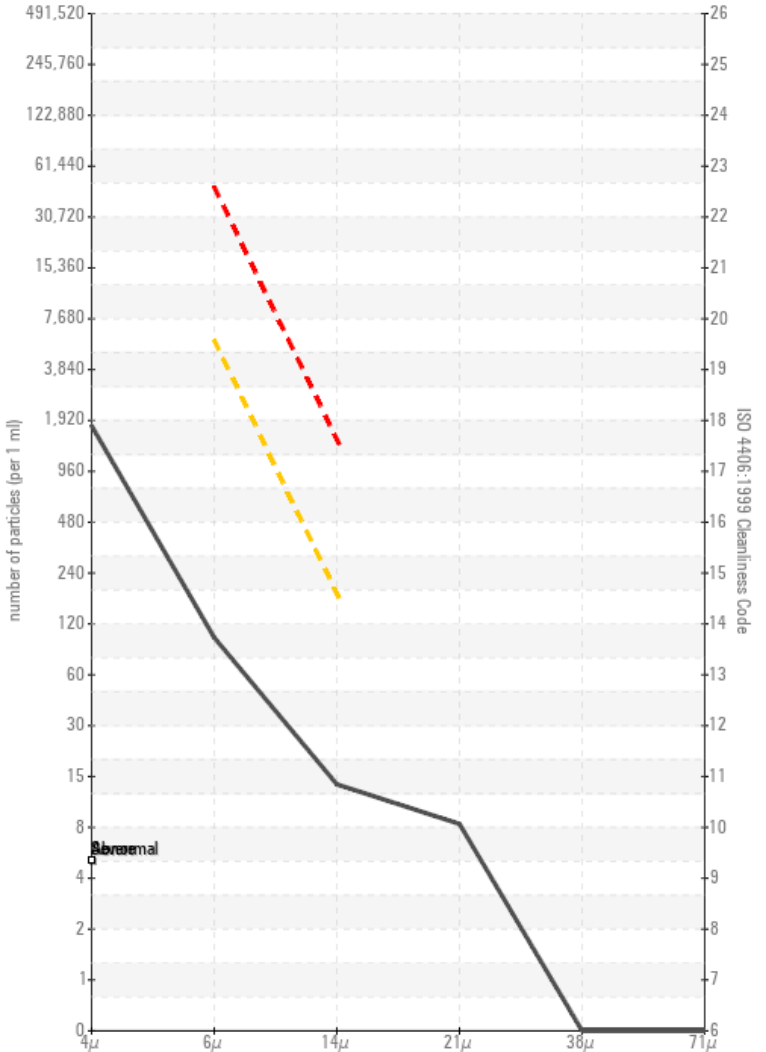
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

