



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342175 - HYDRAULIC SYSTEM



**Sample No:** VCP407856  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP407856</b>	VCP386798	VCP332840	VCP337012
Sample Date	<b>16 Jun 2023</b>	15 Sep 2022	01 Mar 2022	30 Aug 2021
Machine Hours	<b>9340</b>	8071	7189	6287
Oil Hours	<b>0</b>	500	1500	2000
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Not Chngd
Sample Status	<b>NORMAL</b>	NORMAL	ATTENTION	ABNORMAL

**RIPA AND ASSOCIATES**  
 10149 FISHER AVENUE  
 TAMPA, FL  
 US 33619  
 Contact: ROBERT TURNER  
 rturner@ripatampa.com  
 T:  
 F:

### OIL CONDITION

Visc @ 40°C	cSt	<b>47.3</b>	47.5	48.1	46.4
Acid Number (AN)	mg KOH/g	<b>0.36</b>	0.32	0.41	1.231

### CONTAMINATION

Particles >4µm		<b>9024</b>	2289	23476	23925
Particles >6µm		<b>2447</b>	230	4276	1094
Particles >14µm		<b>154</b>	4	292	36
ISO 4406:1999 (c)		<b>20/18/14</b>	18/15/9	22/19/15	22/17/12
Silicon	ppm	<b>3</b>	3	3	17
Sodium	ppm	<b>1</b>	1	0	6
Potassium	ppm	<b>0</b>	0	<1	3

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

### WEAR METALS

Iron	ppm	<b>7</b>	10	10	24
Copper	ppm	<b>2</b>	4	2	223
Lead	ppm	<b>&lt;1</b>	1	1	0
Tin	ppm	<b>0</b>	<1	0	0
Aluminum	ppm	<b>&lt;1</b>	1	0	<1
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>16</b>	<1	<1	0
Nickel	ppm	<b>0</b>	0	0	5
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	0	<1	<1
Manganese	ppm	<b>0</b>	<1	0	1
Vanadium	ppm	<b>&lt;1</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>123</b>	119	101	3280
Magnesium	ppm	<b>14</b>	5	6	32
Zinc	ppm	<b>452</b>	417	468	1323
Phosphorus	ppm	<b>376</b>	347	357	1102
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>3</b>	0	2	93

**Depot:** RIPTAM  
**Unique No:** 10551878  
**Signed:** Wes Davis  
**Report Date:** 13 Jul 2023

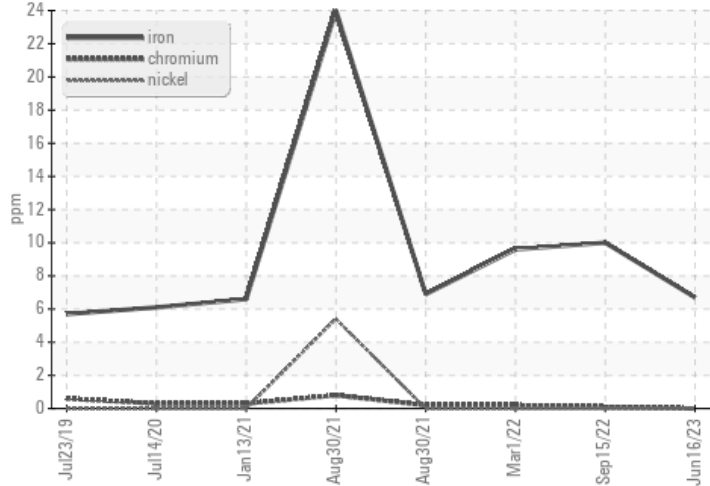


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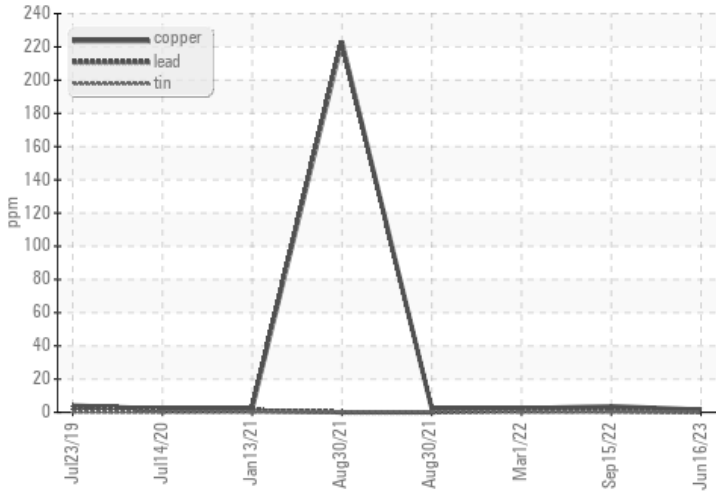


## VOLVO GRAPHS

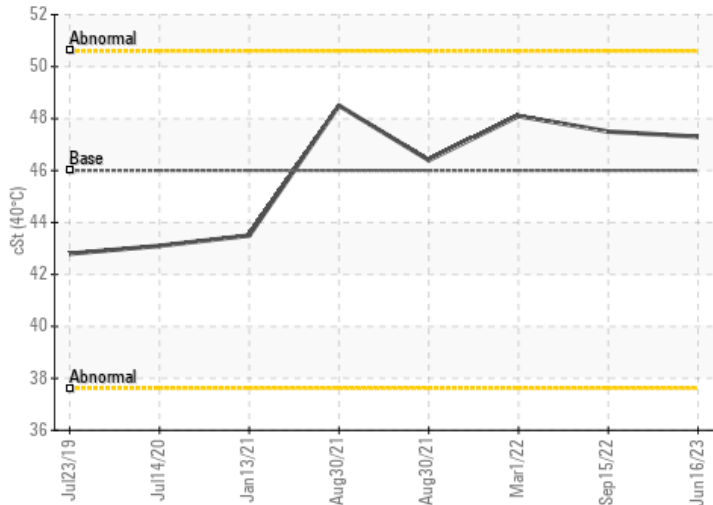
Ferrous Alloys



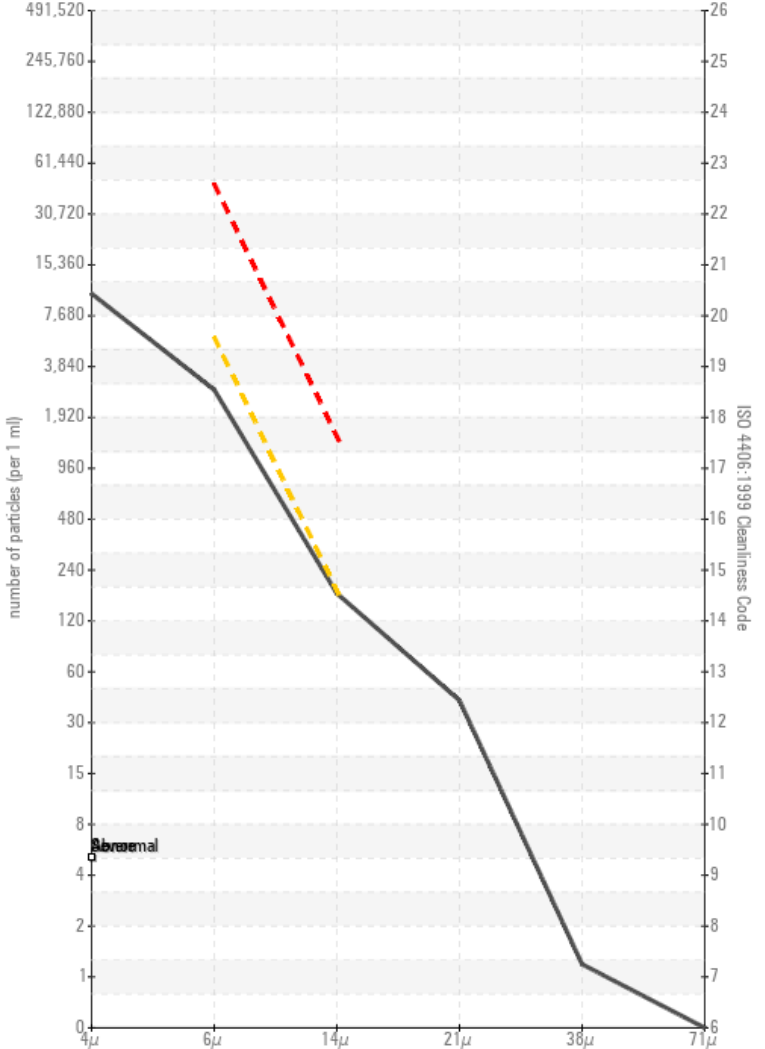
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

