



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 342539 - HYDRAULIC SYSTEM



**Sample No:** VCP0007581  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP0007581</b>	VCP331627	VCP315486	VCP276622
Sample Date	<b>06 Jul 2023</b>	01 Dec 2021	15 Mar 2021	05 May 2020
Machine Hours	<b>0</b>	4272	3145	1920
Oil Hours	<b>0</b>	4272	3145	1920
Oil Changed	<b>N/A</b>	Changed	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	ABNORMAL	NORMAL	ATTENTION

**QGS - QUALITY GRASSES SERV/TCF LEASING**  
 17502 CR 672  
 LITHIA, FL  
 US 33547  
 Contact: GARY ROGERS  
 grogers@qgsdevelopment.com  
 T: (813)323-4119  
 F:

### OIL CONDITION

Visc @ 40°C	cSt	<b>43.4</b>	42.5	42.5	42.7
Acid Number (AN)	mg KOH/g	<b>0.39</b>	0.48	0.656	0.483

### CONTAMINATION

Particles >4µm		<b>7132</b>	14761	4841	11852
Particles >6µm		<b>1628</b>	4035	1170	2939
Particles >14µm		<b>78</b>	337	117	177
ISO 4406:1999 (c)		<b>20/18/13</b>	21/19/16	19/17/14	21/19/15
Silicon	ppm	<b>5</b>	6	6	5
Sodium	ppm	<b>2</b>	2	<1	<1
Potassium	ppm	<b>1</b>	<1	0	0

### 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>11</b>	13	9	6
Copper	ppm	<b>3</b>	6	5	3
Lead	ppm	<b>4</b>	5	5	3
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>4</b>	2	<1	<1
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>4</b>	2	2	2
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	<1	0	0
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	<b>&lt;1</b>	<1	0	<1
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>198</b>	182	175	156
Magnesium	ppm	<b>35</b>	32	34	30
Zinc	ppm	<b>505</b>	502	495	461
Phosphorus	ppm	<b>396</b>	359	377	342
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	3	2	1

**Depot:** QUALITFL  
**Unique No:** 10549395  
**Signed:** Wes Davis  
**Report Date:** 11 Jul 2023

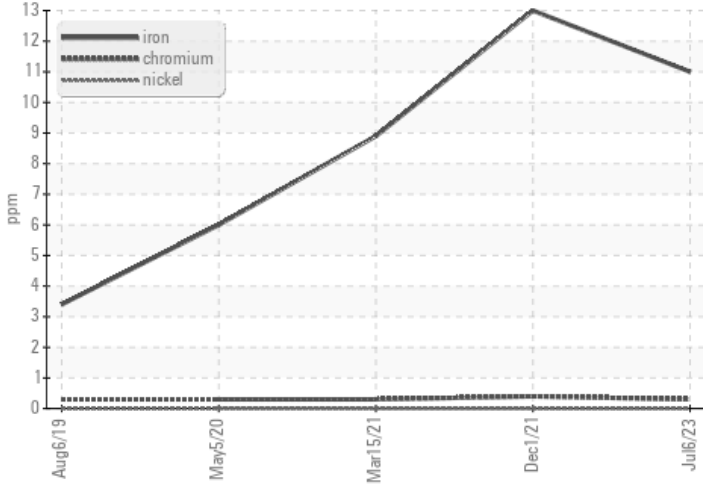


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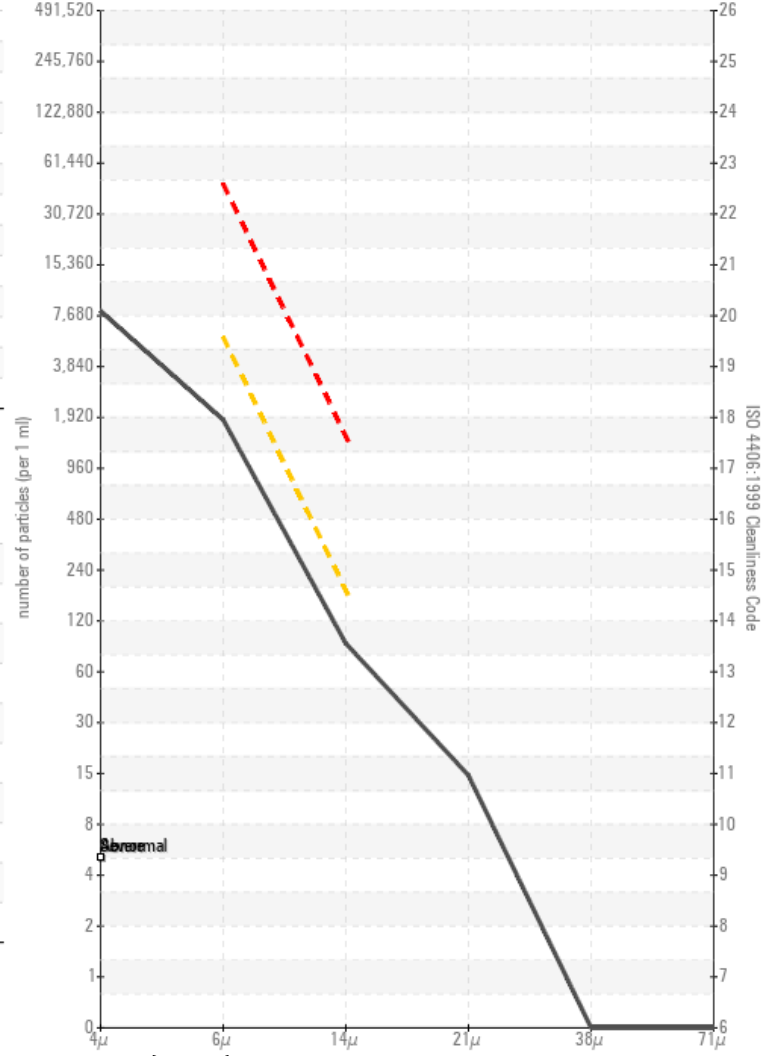


## GRAPHS

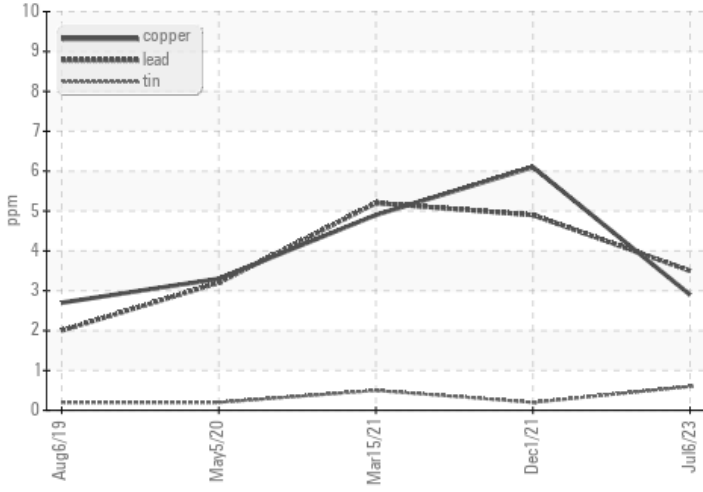
### Ferrous Alloys



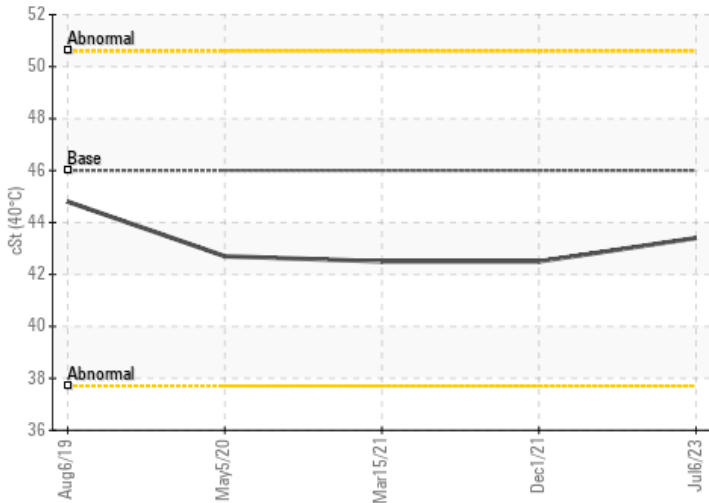
### Particle Count



### Non-ferrous Metals



### Viscosity @ 40°C



### Acid Number

