



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 342538 - HYDRAULIC SYSTEM



**Sample No:** VCP0007979  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP0007979</b>	VCP360643	VCP320494	VCP301124
Sample Date	<b>06 Jul 2023</b>	12 Apr 2022	03 Aug 2021	17 Dec 2020
Machine Hours	<b>0</b>	5233	4214	3082
Oil Hours	<b>0</b>	1000	1500	0
Oil Changed	<b>N/A</b>	Not Changd	Changed	Not Changd
Sample Status	<b>ABNORMAL</b>	NORMAL	ATTENTION	NORMAL

**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>48.3</b>	42.5	41.3	41.0
Acid Number (AN)	mg KOH/g	<b>0.88</b>	0.45	0.459	0.505

### CONTAMINATION

Particles >4µm		<b>10198</b>	2527	4806	3477
Particles >6µm		<b>2953</b>	615	1309	870
Particles >14µm		<b>276</b>	52	162	62
ISO 4406:1999 (c)		<b>21/19/15</b>	19/16/13	19/18/15	19/17/13
Silicon	ppm	<b>6</b>	3	8	3
Sodium	ppm	<b>2</b>	2	2	2
Potassium	ppm	<b>2</b>	0	<1	<1

### Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of particulates (2 to 100 microns in size) 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>	4	10	5
Copper	ppm	<b>2</b>	3	6	4
Lead	ppm	<b>2</b>	3	6	4
Tin	ppm	<b>&lt;1</b>	0	0	<1
Aluminum	ppm	<b>4</b>	1	<1	0
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>1</b>	1	0	<1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	<1	<1	<1
Manganese	ppm	<b>&lt;1</b>	0	0	<1
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>822</b>	261	192	423
Magnesium	ppm	<b>10</b>	9	3	5
Zinc	ppm	<b>679</b>	473	469	493
Phosphorus	ppm	<b>539</b>	394	380	408
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	4	8	4

**Depot:** QUALITFL  
**Unique No:** 10549398  
**Signed:** Wes Davis  
**Report Date:** 11 Jul 2023

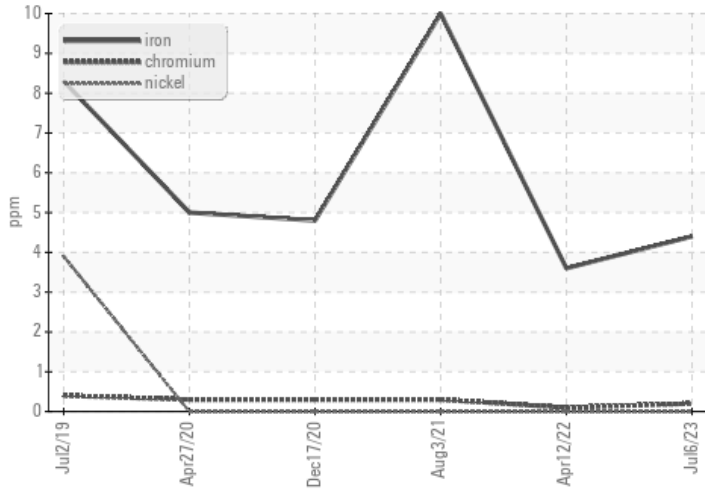


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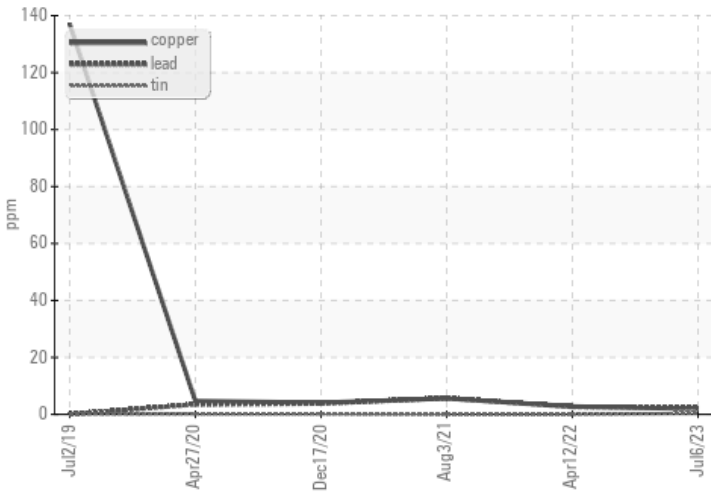


## GRAPHS

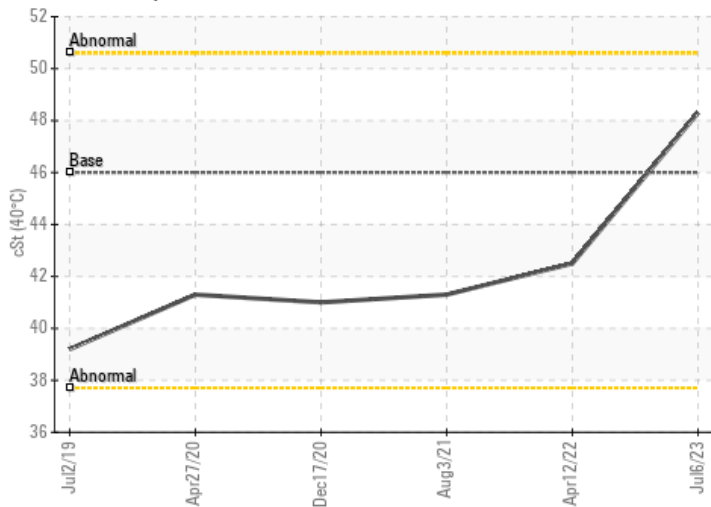
### Ferrous Alloys



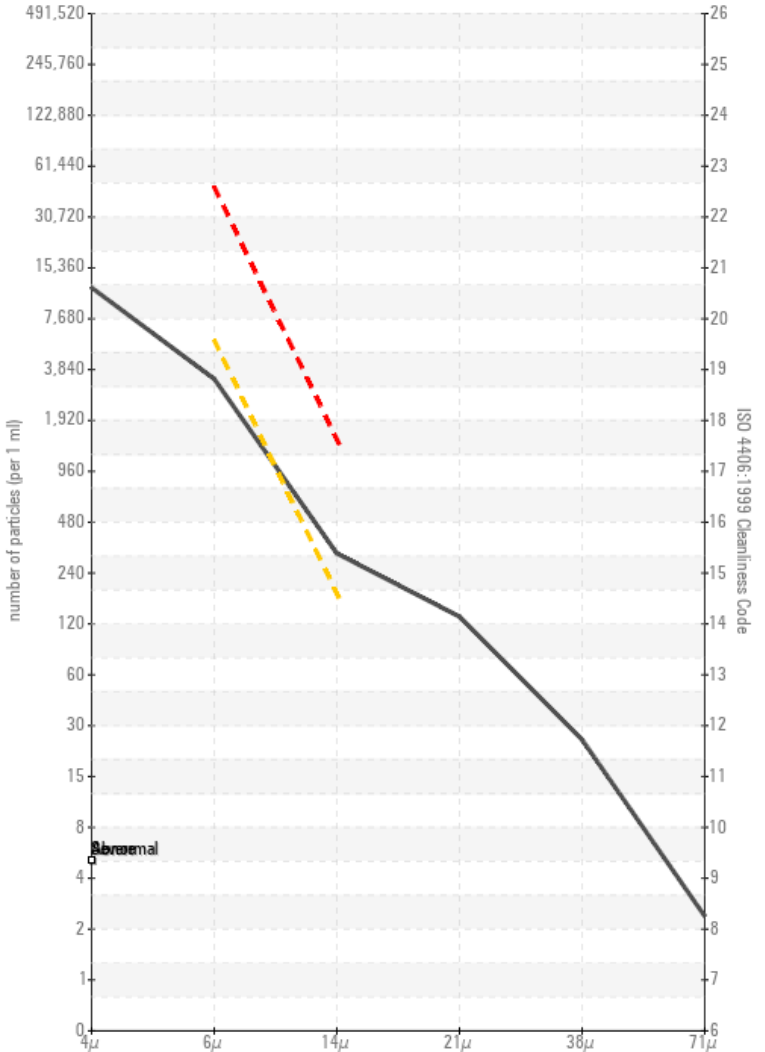
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

