



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 352022 - HYDRAULIC SYSTEM



**Sample No:** VCP409176  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP409176</b>	VCP393463	VCP338615	VCP311340
Sample Date	<b>18 Sep 2023</b>	22 Mar 2023	04 Mar 2022	01 May 2021
Machine Hours	<b>5727</b>	4482	3839	2573
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	Changed
Sample Status	<b>ABNORMAL</b>	ATTENTION	ATTENTION	NORMAL

**DUNN CONSTRUCTION INC**  
 318 N 14TH ST  
 BELLEVUE, IA  
 US 52031  
 Contact: STEVE DUNN  
 DUNNCONSTRUCTINC@GMAIL.COM  
 T:  
 F:

### OIL CONDITION

Visc @ 40°C	cSt	<b>44.4</b>	44.51	44.0	41.8
Acid Number (AN)	mg KOH/g	<b>0.47</b>	0.47	0.50	0.420

### CONTAMINATION

Particles >4µm		<b>50541</b>	18191	72279	20369
Particles >6µm		<b>10487</b>	1629	5334	2356
Particles >14µm		<b>543</b>	170	276	122
ISO 4406:1999 (c)		<b>23/21/16</b>	21/18/15	23/20/15	22/18/14
Silicon	ppm	<b>9</b>	6	8	2
Sodium	ppm	<b>2</b>	2	1	<1
Potassium	ppm	<b>2</b>	0	3	0

### Diagnosis

We recommend you service the filters on this component. 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. Moderate concentration of visible dirt/debris 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>13</b>	9	9	2
Copper	ppm	<b>4</b>	4	4	2
Lead	ppm	<b>1</b>	0	1	2
Tin	ppm	<b>&lt;1</b>	0	<1	<1
Aluminum	ppm	<b>3</b>	1	2	<1
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>&lt;1</b>	<1	2	1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	<1	0
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	0
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>770</b>	629	1192	128
Magnesium	ppm	<b>14</b>	21	23	10
Zinc	ppm	<b>855</b>	734	1022	142
Phosphorus	ppm	<b>633</b>	552	779	104
Barium	ppm	<b>0</b>	0	0	5
Boron	ppm	<b>22</b>	19	40	4

**Depot:** DUNBEL  
**Unique No:** 10701987  
**Signed:** Don Baldrige  
**Report Date:** 23 Oct 2023

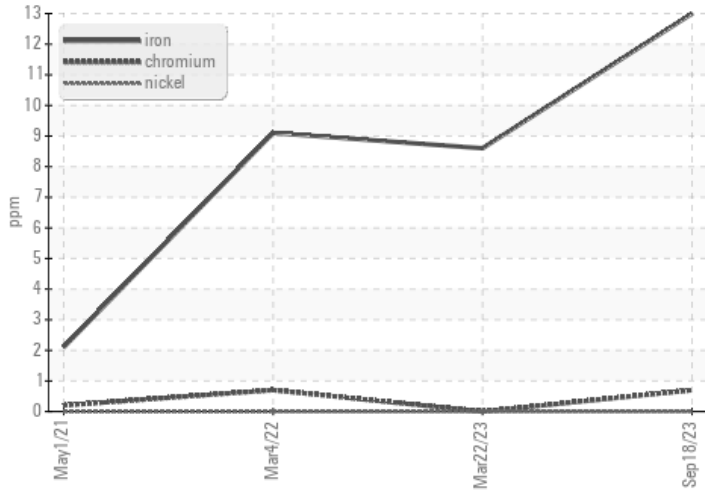


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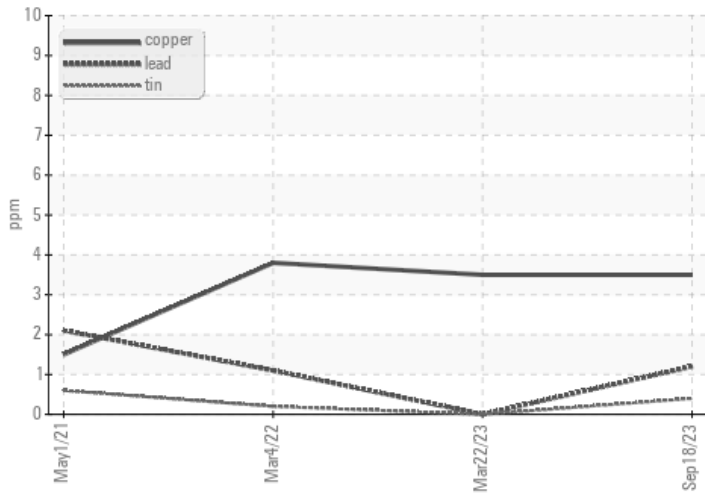


## GRAPHS

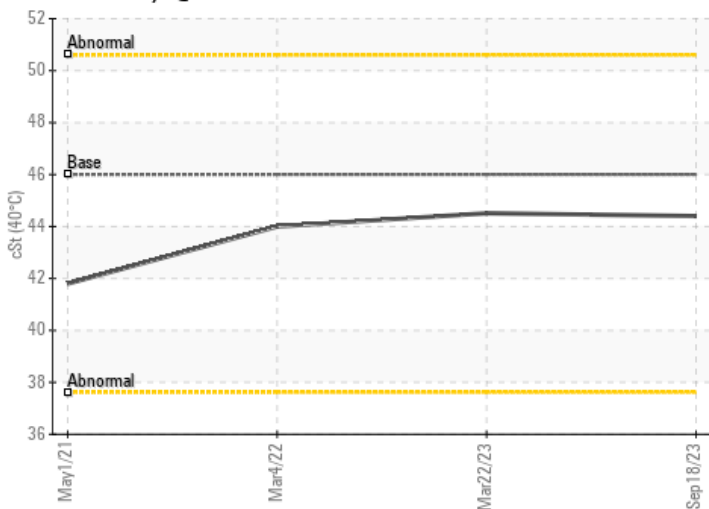
### Ferrous Alloys



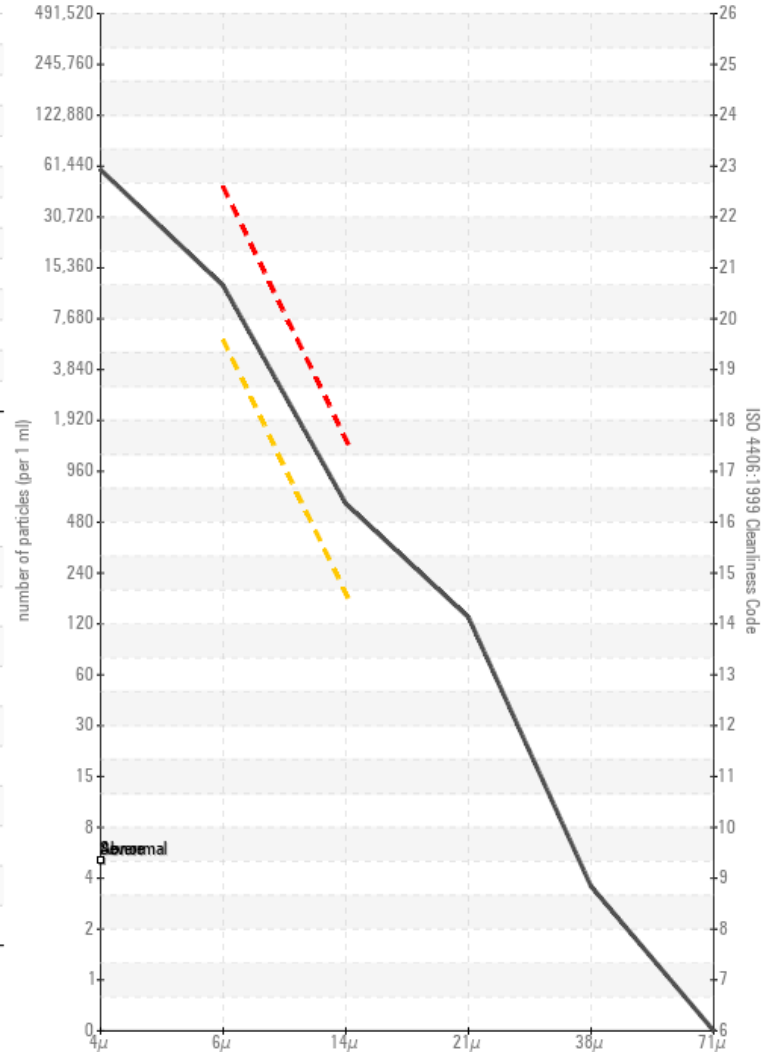
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

