



# CONSTRUCTION EQUIPMENT

## 511170-10 VOLVO EC300E 314225 - HYDRAULIC SYSTEM



**Sample No:** VCP431675  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 511170-10



### SAMPLE INFORMATION

Sample Number	<b>VCP431675</b>	VCP420315	VCP405637	VCP374140
Sample Date	<b>18 Mar 2024</b>	07 Sep 2023	19 Jun 2023	10 Jun 2022
Machine Hours	<b>5921</b>	4869	4288	2242
Oil Hours	<b>2000</b>	0	0	2000
Oil Changed	<b>Not Changd</b>	Changed	Not Changd	Changed
Sample Status	<b>ABNORMAL</b>	NORMAL	NORMAL	NORMAL

### DENALI WE CARE

400 TORNE RD  
 HILLBURN, NY  
 US 10931  
 Contact: Service Manager



### OIL CONDITION

Visc @ 40°C	cSt	<b>41.2</b>	40.6	40.8	41.6
Acid Number (AN)	mg KOH/g	<b>0.491</b>	0.39	0.50	0.46

T:  
F:



### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		---	1321	10598	6763
Particles >6µm		---	278	1380	753
Particles >14µm		---	15	67	55
ISO 4406:1999 (c)		---	18/15/11	21/18/13	20/17/13
Silicon	ppm	<b>1</b>	3	3	3
Sodium	ppm	<b>&lt;1</b>	<1	0	0
Potassium	ppm	<b>0</b>	0	<1	0

### Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. 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>1</b>	4	3	3
Copper	ppm	<b>9</b>	18	18	21
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>0</b>	0	<1	<1
Chromium	ppm	<b>0</b>	1	<1	<1
Molybdenum	ppm	<b>0</b>	0	0	<1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>0</b>	0	0	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>58</b>	55	45	64
Magnesium	ppm	<b>0</b>	2	<1	0
Zinc	ppm	<b>388</b>	414	402	425
Phosphorus	ppm	<b>337</b>	254	351	363
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	<1

**Depot:** DENHIL  
**Unique No:** 10941857  
**Signed:** Jonathan Hester  
**Report Date:** 27 Mar 2024

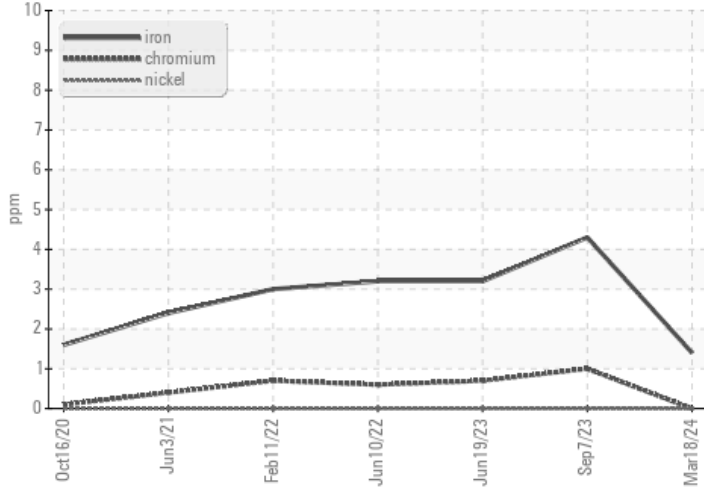


# CONSTRUCTION EQUIPMENT

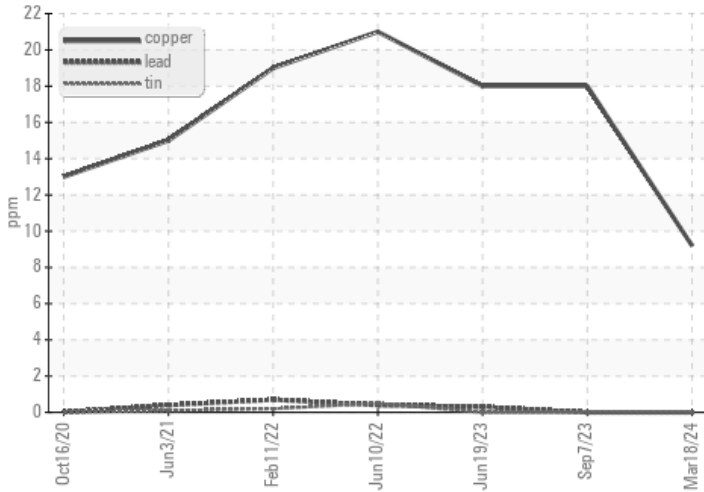


## GRAPHS

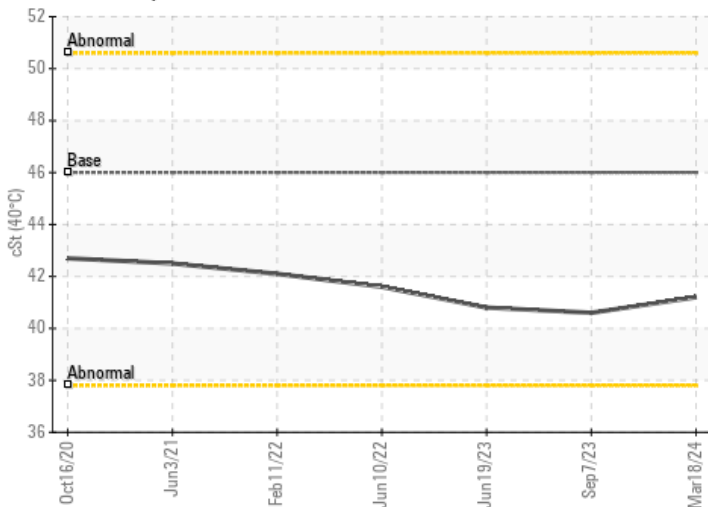
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C



### Acid Number

