



# CONSTRUCTION EQUIPMENT

## S631 IAA RANCHO CORD VOLVO L90H 623903 - HYDRAULIC SYSTEM



**Sample No:** VCP425894  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** S631 IAA RANCHO CORD



### SAMPLE INFORMATION

Sample Number	<b>VCP425894</b>	VCP271262	VCP247115	VCP218218
Sample Date	<b>06 Jul 2023</b>	10 Apr 2020	26 Jul 2019	08 May 2018
Machine Hours	<b>10036</b>	5960	4590	2031
Oil Hours	<b>0</b>	0	0	500
Oil Changed	<b>Changed</b>	Not Changd	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**VCES- VOLVO CONSTRUCTION EQUIPMENT**  
 8594 FRUITRIDGE ROAD  
 SACRAMENTO, CA  
 US 95826  
 Contact: RAY KRANZUSCH  
 ray.kranzusch@vcesvolvo.com  
 T:  
 F:



### OIL CONDITION

Visc @ 40°C	cSt	<b>41.6</b>	40.9	39.6	40.16
Acid Number (AN)	mg KOH/g	<b>0.28</b>	0.253	0.377	0.313



### CONTAMINATION

Particles >4µm		<b>880</b>	1794	5560	2642
Particles >6µm		<b>227</b>	391	899	514
Particles >14µm		<b>15</b>	12	40	62
ISO 4406:1999 (c)		<b>17/15/11</b>	18/16/11	20/17/12	19/16/13
Silicon	ppm	<b>4</b>	3	5	3
Sodium	ppm	<b>2</b>	<1	0	1
Potassium	ppm	<b>0</b>	<1	<1	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>8</b>	6	7	4
Copper	ppm	<b>2</b>	2	3	4
Lead	ppm	<b>0</b>	<1	1	<1
Tin	ppm	<b>0</b>	<1	<1	1
Aluminum	ppm	<b>2</b>	1	1	1
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>0</b>	0	0	0
Nickel	ppm	<b>0</b>	0	<1	0
Titanium	ppm	<b>&lt;1</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>61</b>	55	55	48
Magnesium	ppm	<b>4</b>	<1	<1	0
Zinc	ppm	<b>401</b>	445	434	437
Phosphorus	ppm	<b>315</b>	330	332	318
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	90	<1	0

**Depot:** VOLVO4485  
**Unique No:** 10550156  
**Signed:** Don Baldrige  
**Report Date:** 12 Jul 2023

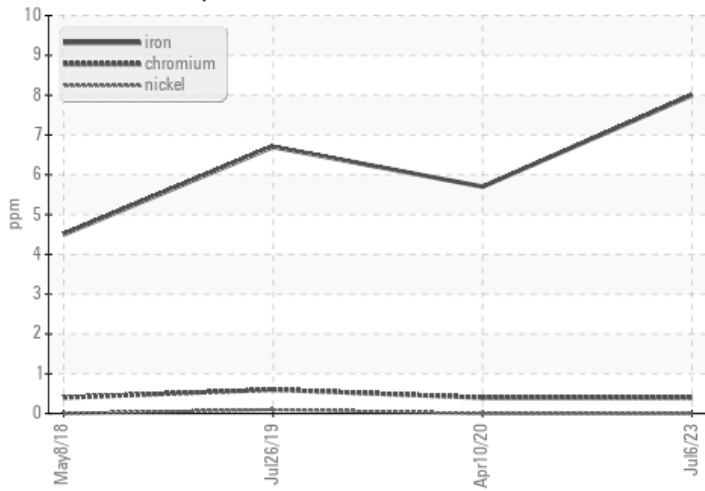


# CONSTRUCTION EQUIPMENT

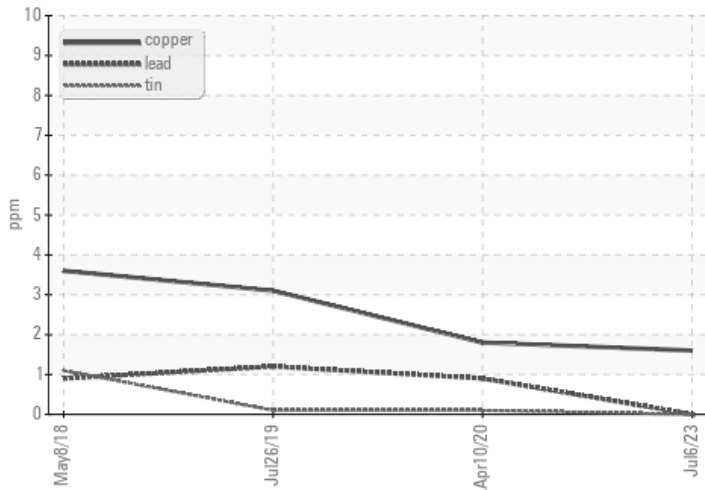


## GRAPHS

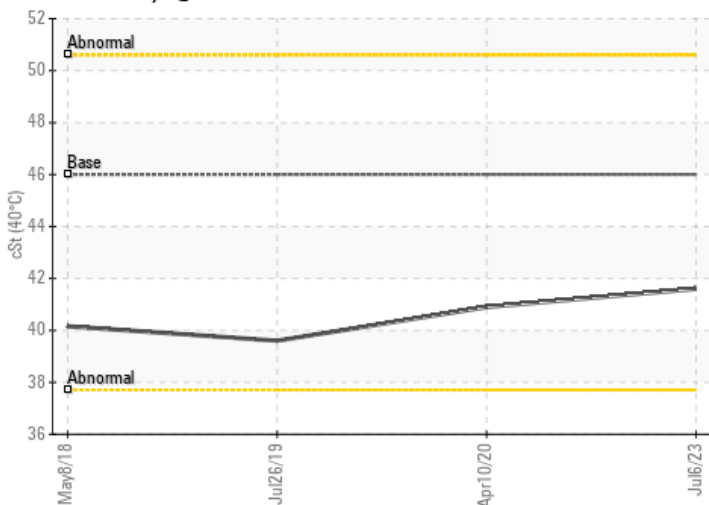
### Ferrous Alloys



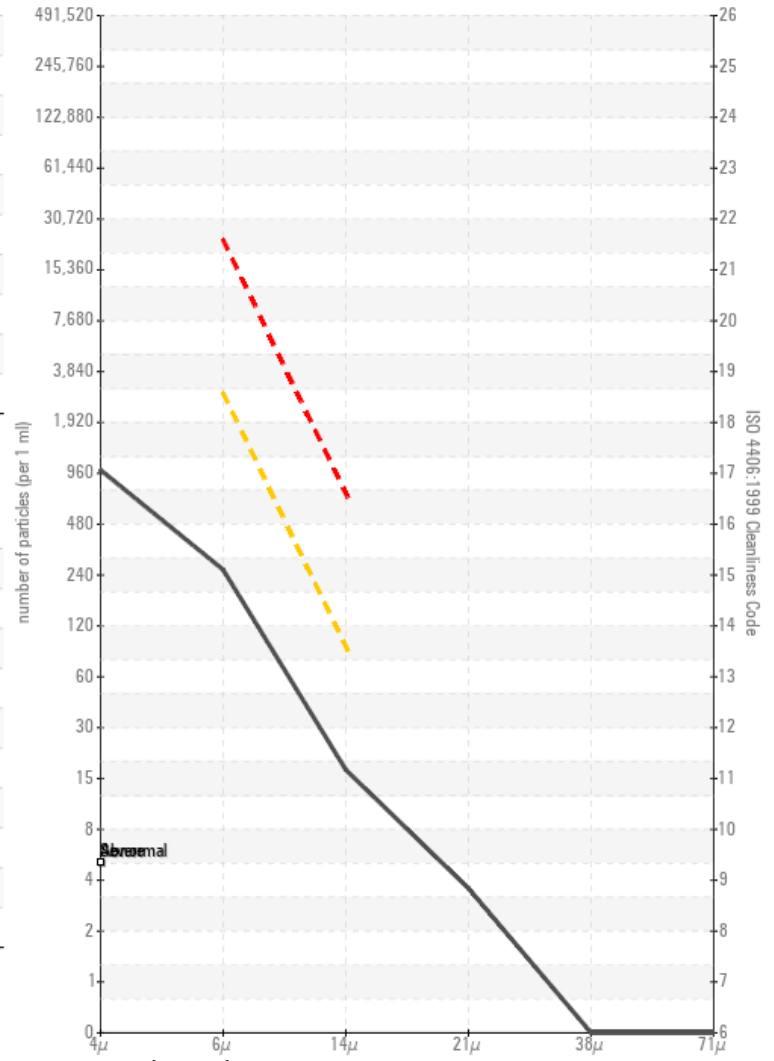
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

