



# CONSTRUCTION EQUIPMENT

## VOLVO EC480EL 311198 - HYDRAULIC SYSTEM



**Sample No:** VCP0007896  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP0007896</b>	VCP336755	VCP304692	VCP282897
Sample Date	<b>24 Apr 2024</b>	20 Nov 2021	24 Feb 2021	26 Jun 2020
Machine Hours	<b>0</b>	4351	2551	1362
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>N/A</b>	Changed	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**ALTA EQUIPMENT COMPANY**  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>41.7</b>	43.1	42.7	42.6
Acid Number (AN)	mg KOH/g	<b>0.55</b>	0.490	0.558	0.527



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>425</b>	33978	4331	14211
Particles >6µm		<b>124</b>	4856	883	2017
Particles >14µm		<b>13</b>	269	61	48
ISO 4406:1999 (c)		<b>16/14/11</b>	22/19/15	19/17/13	21/18/13
Silicon	ppm	<b>2</b>	3	3	3
Sodium	ppm	<b>&lt;1</b>	0	0	0
Potassium	ppm	<b>0</b>	0	0	<1

### 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>0</b>	6	5	3
Copper	ppm	<b>24</b>	34	28	24
Lead	ppm	<b>0</b>	<1	<1	<1
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>0</b>	<1	0	<1
Chromium	ppm	<b>0</b>	2	<1	<1
Molybdenum	ppm	<b>0</b>	<1	<1	<1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	<1	<1	<1
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>43</b>	82	109	110
Magnesium	ppm	<b>0</b>	0	<1	<1
Zinc	ppm	<b>444</b>	407	464	484
Phosphorus	ppm	<b>344</b>	392	420	372
Barium	ppm	<b>0</b>	0	0	<1
Boron	ppm	<b>0</b>	1	<1	<1

**Depot:** VOLVO0092  
**Unique No:** 10996812  
**Signed:** Wes Davis  
**Report Date:** 29 Apr 2024

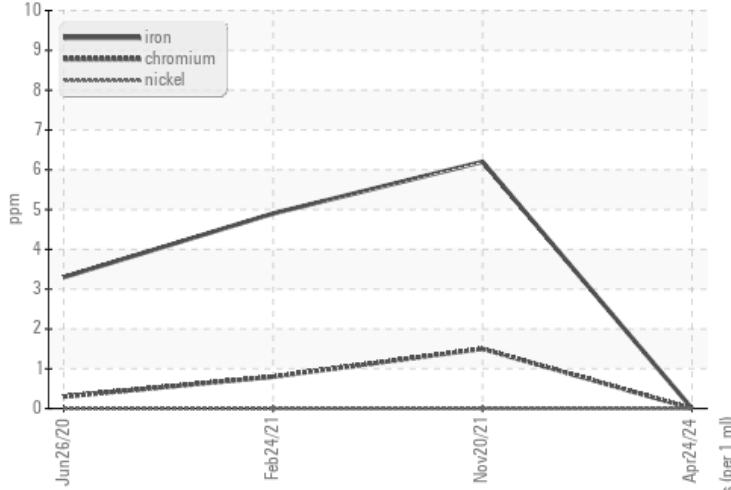


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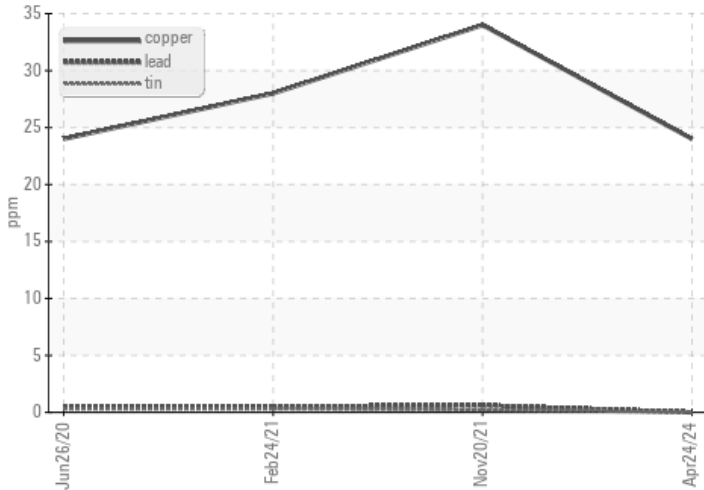


## GRAPHS

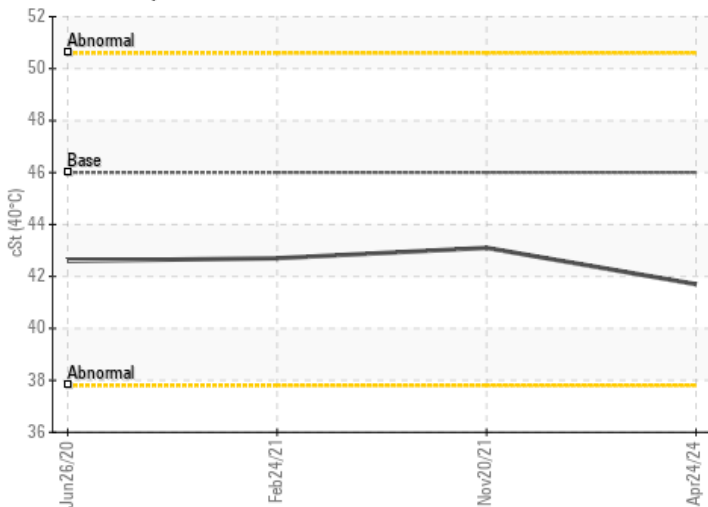
### Ferrous Alloys



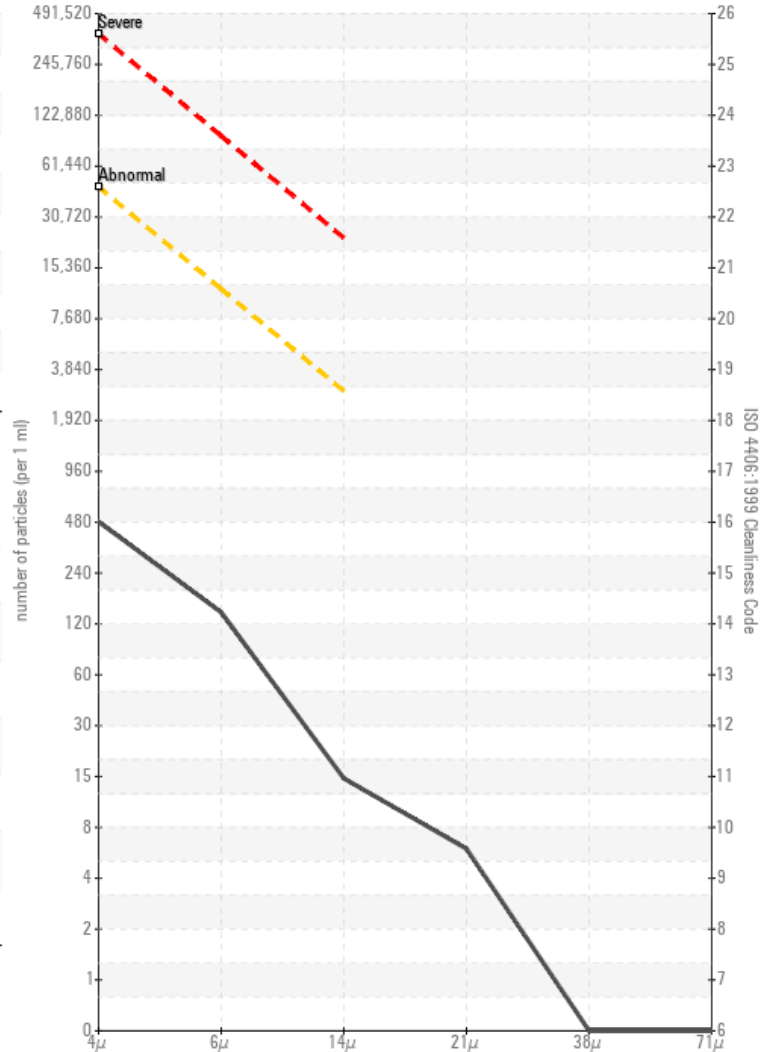
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

