



# CONSTRUCTION EQUIPMENT

## ATLAS ORGANIC VOLVO EC220ELR 314372 - HYDRAULIC SYSTEM



**Sample No:** VCP436016  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** ATLAS ORGANIC



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC  
 8418 PALM RIVER ROAD  
 TAMPA, FL  
 US 33619  
 Contact: KENNY HANEY  
 khaney@flaglerce.com  
 T: (813)630-0077  
 F: (813)630-2233

### SAMPLE INFORMATION

Sample Number	<b>VCP436016</b>	VCP427093	VCP379857	VCP312727
Sample Date	<b>10 Oct 2023</b>	21 Jun 2023	04 Nov 2022	16 Dec 2021
Machine Hours	<b>1490</b>	1984	1017	468
Oil Hours	<b>0</b>	0	0	468
Oil Changed	<b>N/A</b>	Changed	Not Changd	Not Changd
Sample Status	<b>ATTENTION</b>	NORMAL	NORMAL	ABNORMAL

### OIL CONDITION

Visc @ 40°C	cSt	<b>41.8</b>	43.6	43.5	44.0
Acid Number (AN)	mg KOH/g	<b>0.43</b>	0.59	0.60	0.667

### CONTAMINATION

Particles >4µm		<b>40277</b>	2598	1276	---
Particles >6µm		<b>11173</b>	755	120	---
Particles >14µm		<b>1295</b>	45	12	---
ISO 4406:1999 (c)		<b>23/21/17</b>	19/17/13	17/14/11	---
Silicon	ppm	<b>6</b>	4	4	4
Sodium	ppm	<b>&lt;1</b>	<1	0	<1
Potassium	ppm	<b>1</b>	0	1	0

### WEAR METALS

Iron	ppm	<b>3</b>	3	3	6
Copper	ppm	<b>43</b>	54	50	37
Lead	ppm	<b>&lt;1</b>	0	<1	<1
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>0</b>	2	0	<1
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>0</b>	0	0	0
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	<1
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>39</b>	84	105	112
Magnesium	ppm	<b>0</b>	<1	<1	<1
Zinc	ppm	<b>457</b>	629	694	688
Phosphorus	ppm	<b>341</b>	463	512	500
Barium	ppm	<b>0</b>	4	0	0
Boron	ppm	<b>0</b>	0	0	0

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. Confirm oil type. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

**Depot:** VOLVO0093  
**Unique No:** 10739251  
**Signed:** Don Baldrige  
**Report Date:** 15 Nov 2023

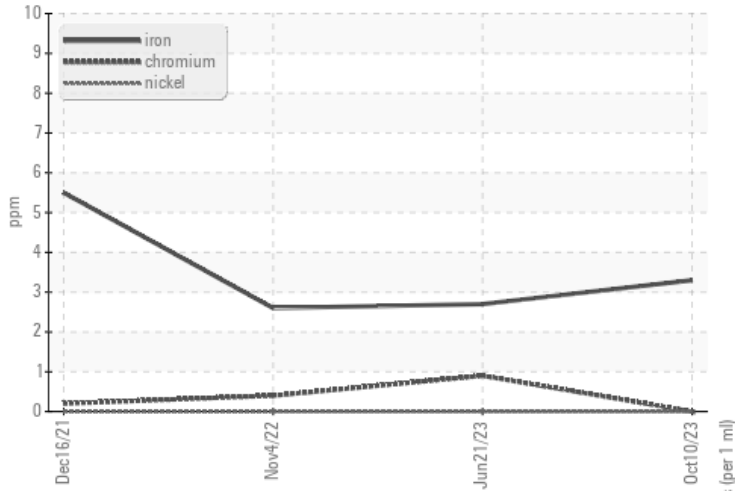


# CONSTRUCTION EQUIPMENT

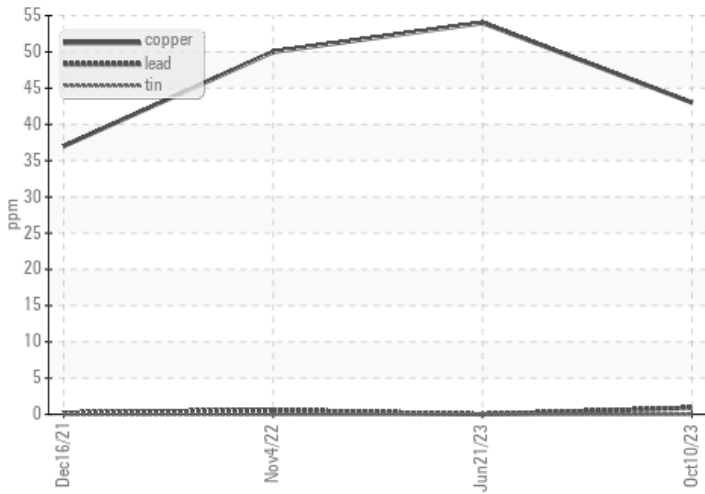


## GRAPHS

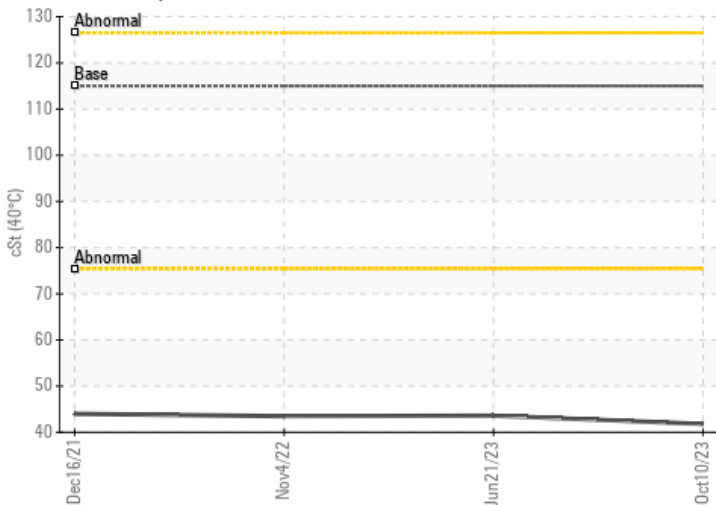
### Ferrous Alloys



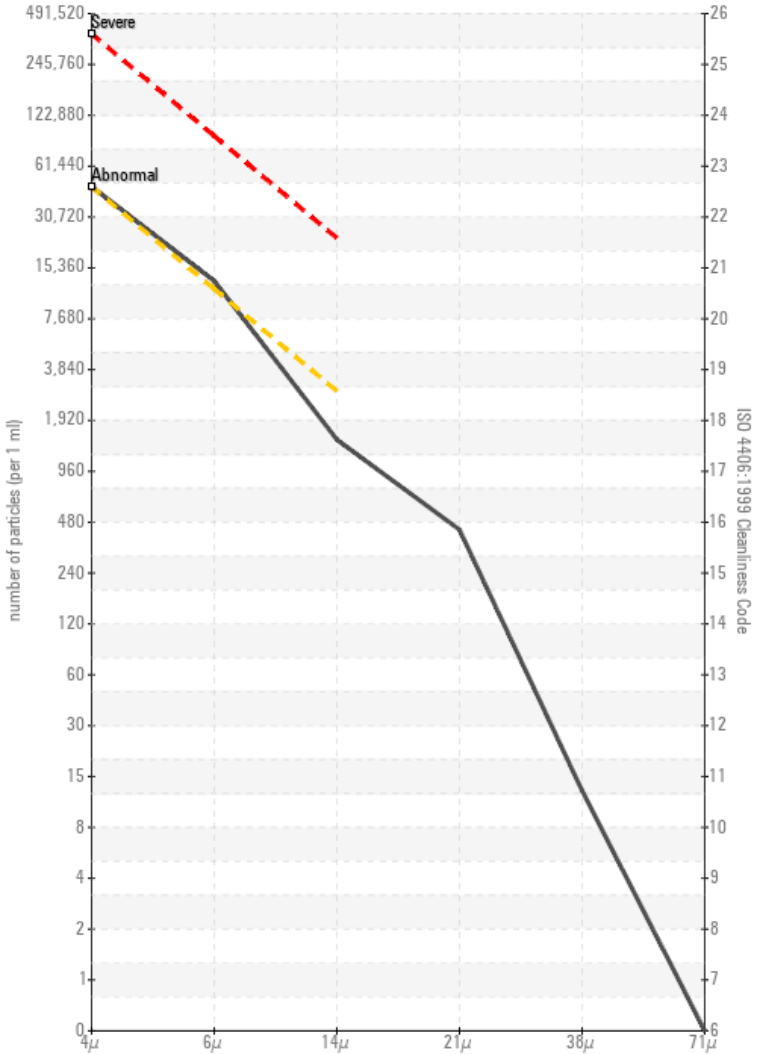
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

