



# CONSTRUCTION EQUIPMENT

## WST CONN VOLVO L356S 3424291 - HYDRAULIC SYSTEM



**Sample No:** VCP429342  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** WST CONN



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	VCP429342	VCP365198	---	---
Sample Date	18 Dec 2023	05 Oct 2023	---	---
Machine Hours	12495	12010	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Not Changd	---	---
Sample Status	ATTENTION	ABNORMAL	---	---



### OIL CONDITION

Visc @ 40°C	cSt	▲ 43.7	■ 42.6	---	---
Acid Number (AN)	mg KOH/g	■ 0.44	■ 0.48	---	---



### CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		13176	16896	---	---
Particles >6µm		■ 38	▲ 6667	---	---
Particles >14µm		■ 4	▲ 582	---	---
ISO 4406:1999 (c)		21/12/9	21/20/16	---	---
Silicon	ppm	■ <1	■ 1	---	---
Sodium	ppm	■ 0	■ <1	---	---
Potassium	ppm	■ 2	■ <1	---	---



### WEAR METALS

Iron	ppm	■ 3	■ 3	---	---
Copper	ppm	■ 2	■ 1	---	---
Lead	ppm	■ <1	■ 0	---	---
Tin	ppm	■ <1	■ 0	---	---
Aluminum	ppm	■ 2	■ 3	---	---
Chromium	ppm	■ 0	■ 0	---	---
Molybdenum	ppm	■ 4	■ 0	---	---
Nickel	ppm	■ 0	■ 0	---	---
Titanium	ppm	■ <1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	■ <1	■ 0	---	---
Vanadium	ppm	0	0	---	---



### ADDITIVES

Calcium	ppm	■ 162	■ 79	---	---
Magnesium	ppm	■ 9	■ 7	---	---
Zinc	ppm	■ 470	■ 440	---	---
Phosphorus	ppm	■ 373	■ 337	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 10	■ 1	---	---

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

**Depot:** VOLVO0093  
**Unique No:** 10829414  
**Signed:** Don Baldrige  
**Report Date:** 12 Jan 2024

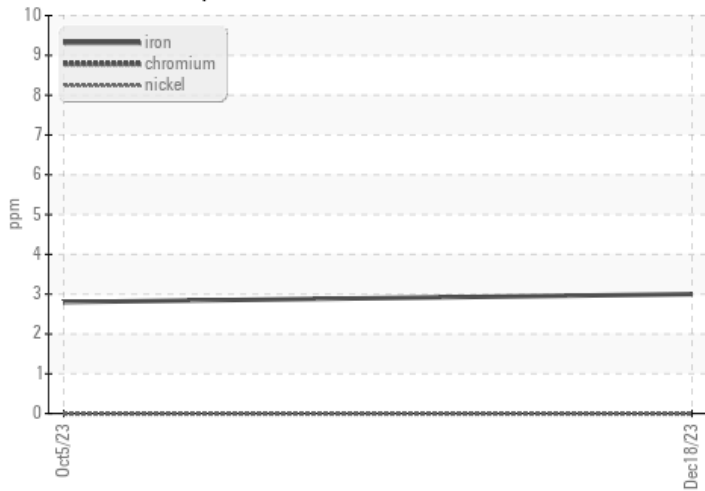


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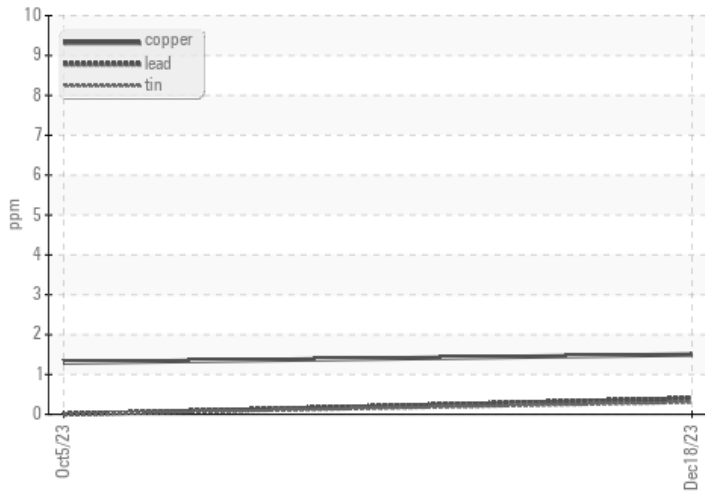


## GRAPHS

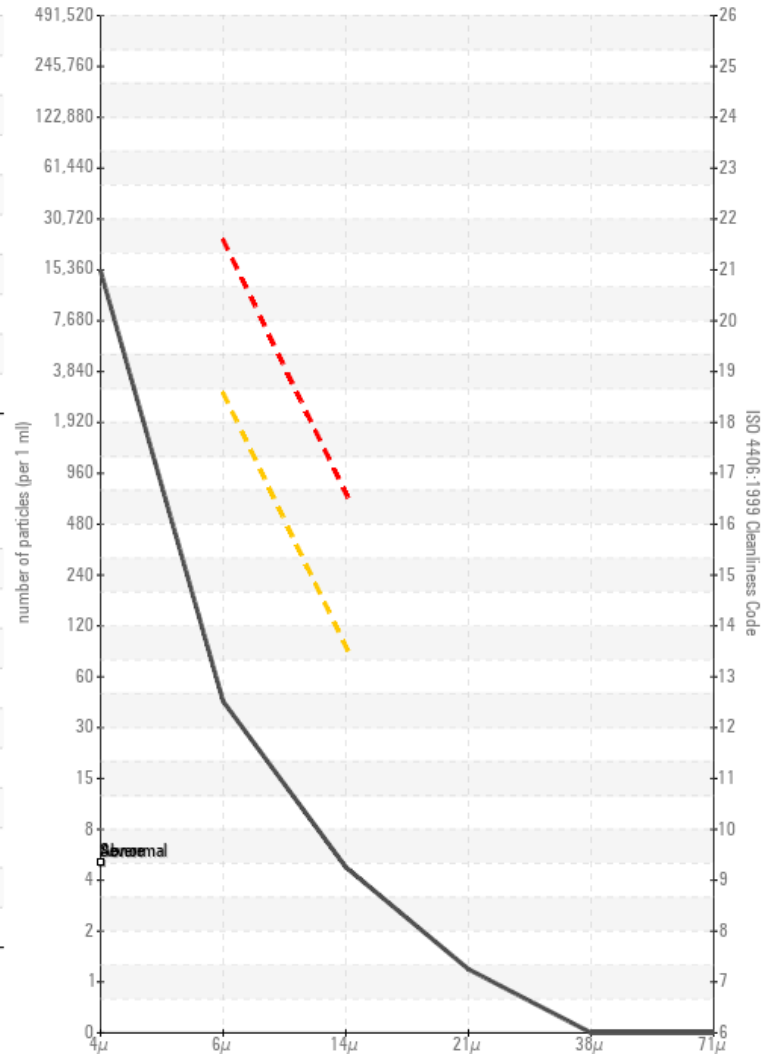
### Ferrous Alloys



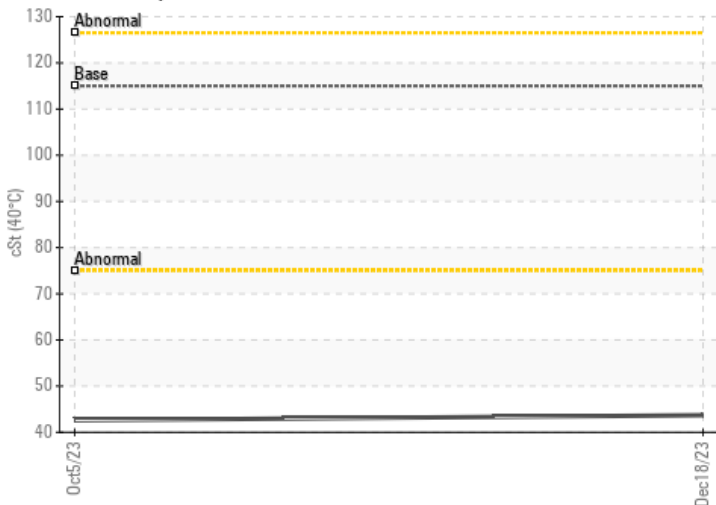
### Non-ferrous Metals



### Particle Count



### Viscosity @ 40°C



### Acid Number

