



# CONSTRUCTION EQUIPMENT

## 385283 VOLVO EC480EL 314200 - HYDRAULIC SYSTEM



**Sample No:** VCP430251  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL SAE 10W30  
**Job No:** 385283



### SAMPLE INFORMATION

Sample Number	VCP430251	---	---	---
Sample Date	19 Nov 2023	---	---	---
Machine Hours	5974	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

### STRONGCO EQUIPMENT

54 IBER ROAD  
 OTTAWA, ON  
 CA K2S 1E8  
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 jhiles@strongco.com  
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 F: (613)836-2614



### OIL CONDITION

Visc @ 40°C	cSt	▲ 47.4	---	---	---
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### CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		■ 5623	---	---	---
Particles >6µm		■ 251	---	---	---
Particles >14µm		■ 14	---	---	---
ISO 4406:1999 (c)		20/15/11	---	---	---
Silicon	ppm	■ 5	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ <1	---	---	---

### Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Titanium ppm levels are marginal. All other 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 oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.



### WEAR METALS

Iron	ppm	■ 18	---	---	---
Copper	ppm	■ 15	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 4	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	▲ 32	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	■ 0	---	---	---
Vanadium	ppm	0	---	---	---



### ADDITIVES

Calcium	ppm	833	---	---	---
Magnesium	ppm	172	---	---	---
Zinc	ppm	773	---	---	---
Phosphorus	ppm	669	---	---	---
Barium	ppm	■ <1	---	---	---
Boron	ppm	■ 61	---	---	---

**Depot:** SHESTI  
**Unique No:** 5682993  
**Signed:** Kevin Marson  
**Report Date:** 22 Nov 2023

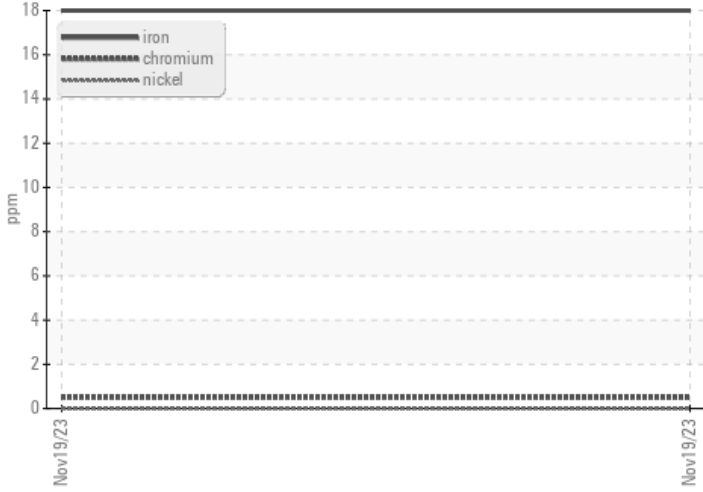


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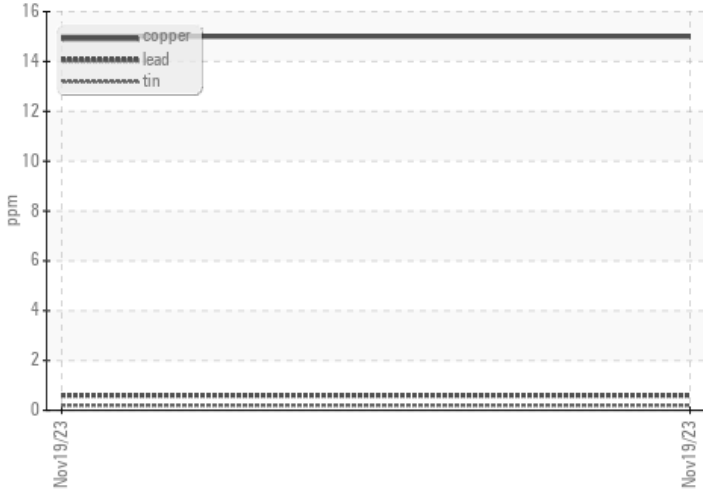


## GRAPHS

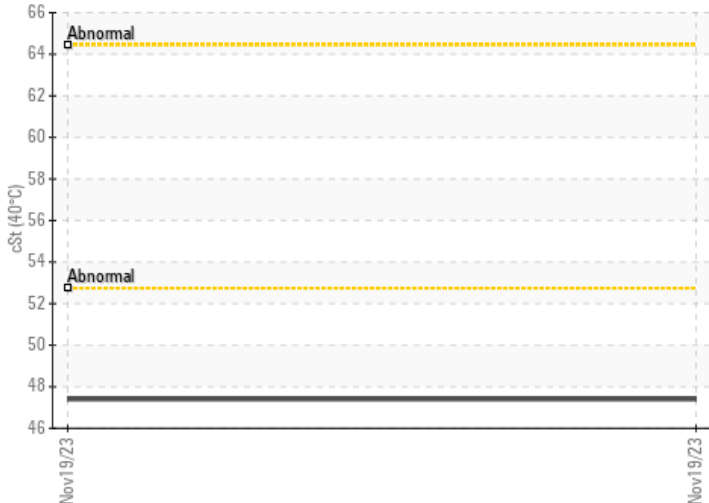
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count

