



# CONSTRUCTION EQUIPMENT

SWA302818 SANTI GRP AVANT 860I 1120122223 - DIESEL ENGINE



**Sample No:** VCP421341  
**Oil Type:** DIESEL ENGINE OIL SAE 5W30  
**Job No:** SWA302818 SANTI GRP



## SAMPLE INFORMATION

Sample Number	VCP421341	---	---	---
Sample Date	18 Jul 2023	---	---	---
Machine Hours	867	---	---	---
Oil Hours	867	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

**ALTA EQUIPMENT COMPANY**  
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## OIL CONDITION

Visc @ 100°C	cSt	▲ 13.3	---	---	---
Base Number (BN)	mg KOH/g	■ 7.7	---	---	---
Oxidation (PA)	%	■ 61	---	---	---

## Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



## CONTAMINATION

Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	■ 61	---	---	---
Sulfation (PA)	%	■ 55	---	---	---
Glycol	%	■ NEG	---	---	---
Fuel	%	■ <1.0	---	---	---
Silicon	ppm	■ 11	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 0	---	---	---



## WEAR METALS

Iron	ppm	■ 13	---	---	---
Copper	ppm	■ 3	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 87	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	■ <1	---	---	---



## ADDITIVES

Calcium	ppm	■ 1571	---	---	---
Magnesium	ppm	■ 501	---	---	---
Zinc	ppm	■ 1275	---	---	---
Phosphorus	ppm	■ 1031	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 478	---	---	---

**Depot:** VOLVO0090  
**Unique No:** 10563373  
**Signed:** Jonathan Hester  
**Report Date:** 20 Jul 2023



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## GRAPHS

### Iron (ppm)



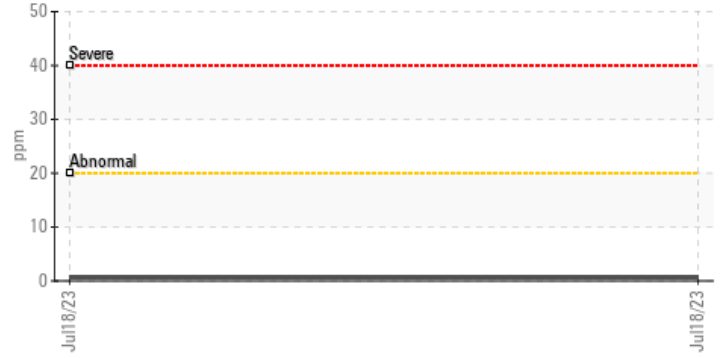
### Lead (ppm)



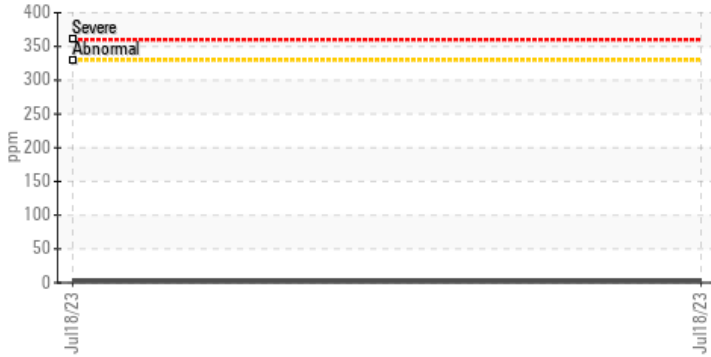
### Aluminum (ppm)



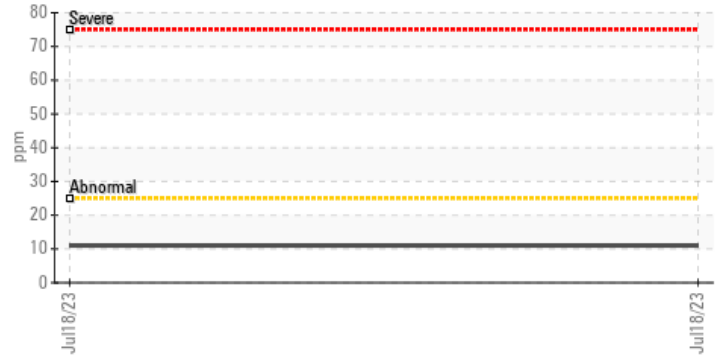
### Chromium (ppm)



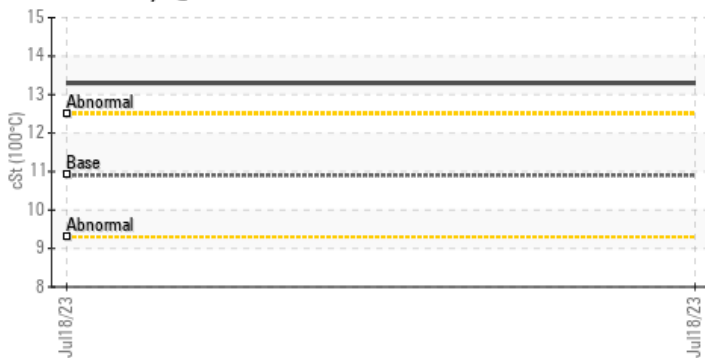
### Copper (ppm)



### Silicon (ppm)



### ▲ Viscosity @ 100°C



### Base Number

