



# CONSTRUCTION EQUIPMENT

SPM580675 NEW SALES VOLVO EC160EL 314557 - DIESEL ENGINE



**Sample No:** VCP420183  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SPM580675 NEW SALES



## SAMPLE INFORMATION

Sample Number	VCP420183	---	---	---
Sample Date	24 Jul 2023	---	---	---
Machine Hours	483	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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F:



## OIL CONDITION

Visc @ 100°C	cSt	█ 13.4	---	---	---
Base Number (BN)	mg KOH/g	█ 7.0	---	---	---
Oxidation (PA)	%	50	---	---	---

## Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The aluminum level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



## CONTAMINATION

Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	58	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 26	---	---	---
Sodium	ppm	█ 1	---	---	---
Potassium	ppm	█ 4	---	---	---



## WEAR METALS

Iron	ppm	█ 48	---	---	---
Copper	ppm	█ 14	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ 4	---	---	---
Aluminum	ppm	▲ 34	---	---	---
Chromium	ppm	█ 7	---	---	---
Molybdenum	ppm	█ 17	---	---	---
Nickel	ppm	█ 9	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ 5	---	---	---
Vanadium	ppm	<1	---	---	---



## ADDITIVES

Calcium	ppm	█ 2893	---	---	---
Magnesium	ppm	█ 177	---	---	---
Zinc	ppm	█ 1417	---	---	---
Phosphorus	ppm	█ 1232	---	---	---
Barium	ppm	█ 3	---	---	---
Boron	ppm	█ 37	---	---	---

**Depot:** VOLVO8885  
**Unique No:** 10586137  
**Signed:** Jonathan Hester  
**Report Date:** 04 Aug 2023

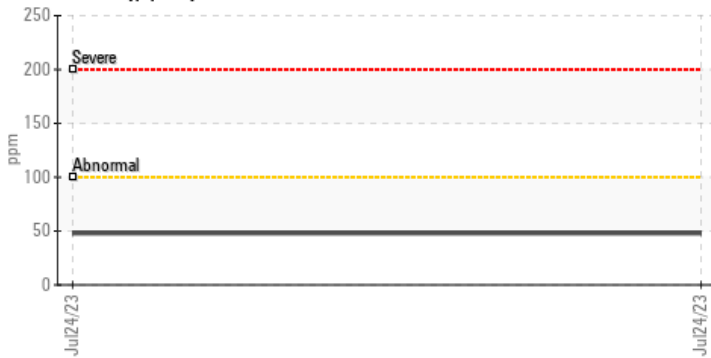


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## GRAPHS

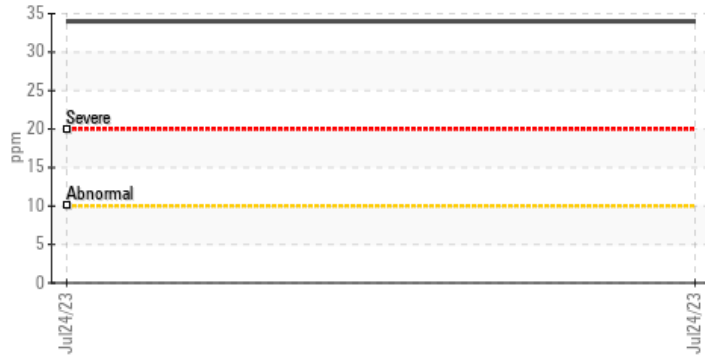
### Iron (ppm)



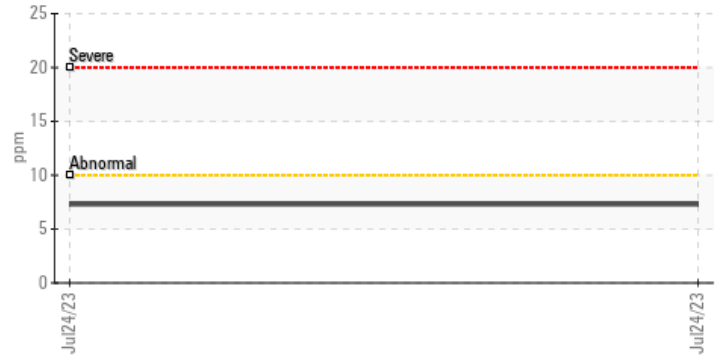
### Lead (ppm)



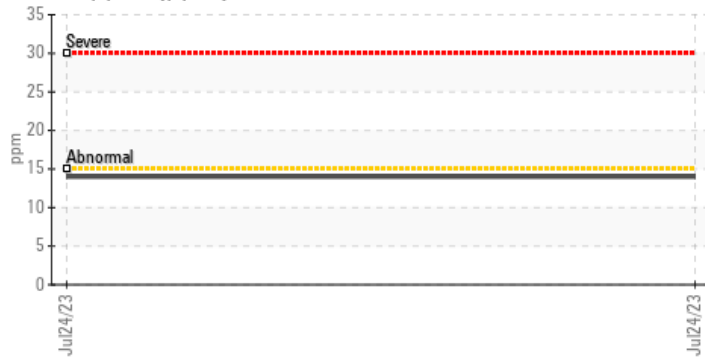
### Aluminum (ppm)



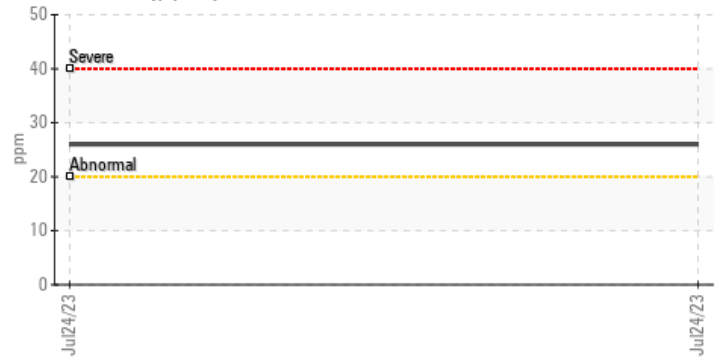
### Chromium (ppm)



### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

