



# CONSTRUCTION EQUIPMENT

SWA333590 PETERSON 5710E 40E-288-2736 - DIESEL ENGINE



**Sample No:** VCP422382  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SWA333590



## SAMPLE INFORMATION

Sample Number	VCP422382	---	---	---
Sample Date	18 Aug 2023	---	---	---
Machine Hours	616	---	---	---
Oil Hours	180	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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## OIL CONDITION

Visc @ 100°C	cSt	▲ 11.8	---	---	---
Base Number (BN)	mg KOH/g	■ 9.3	---	---	---
Oxidation (PA)	%	■ 103	---	---	---

## Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in. Light fuel dilution occurring. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



## CONTAMINATION

Soot %	%	■ 0.3	---	---	---
Nitration (PA)	%	■ 85	---	---	---
Sulfation (PA)	%	■ 70	---	---	---
Glycol	%	■ NEG	---	---	---
Fuel	%	▲ 3.4	---	---	---
Silicon	ppm	■ 24	---	---	---
Sodium	ppm	■ 5	---	---	---
Potassium	ppm	■ 28	---	---	---



## WEAR METALS

Iron	ppm	■ 29	---	---	---
Copper	ppm	▲ 414	---	---	---
Lead	ppm	■ 6	---	---	---
Tin	ppm	■ 3	---	---	---
Aluminum	ppm	■ 26	---	---	---
Chromium	ppm	■ 4	---	---	---
Molybdenum	ppm	■ 47	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	<1	---	---	---



## ADDITIVES

Calcium	ppm	■ 1749	---	---	---
Magnesium	ppm	■ 509	---	---	---
Zinc	ppm	■ 1190	---	---	---
Phosphorus	ppm	■ 900	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 65	---	---	---

**Depot:** VOLVO0090  
**Unique No:** 10619888  
**Signed:** Jonathan Hester  
**Report Date:** 29 Aug 2023



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## GRAPHS

