



CONSTRUCTION EQUIPMENT

SPM621717 VOLVO EC480E 315179 - DIESEL ENGINE



Sample No: VCP382897
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM621717



SAMPLE INFORMATION

Sample Number	VCP382897	VCP409216	---	---
Sample Date	10 Nov 2023	27 Jul 2023	---	---
Machine Hours	1086	615	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Changed	Changed	---	---
Sample Status	ATTENTION	ABNORMAL	---	---

SIMS METAL MANAGEMENT

2500 S. PAULINA
 CHICAGO, IL
 US 60608
 Contact: RYAN WISE
 ryan.wise@simsmm.com
 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	▲ 11.3	▲ 10.9	---	---
Base Number (BN)	mg KOH/g	■ 6.7	■ 4.9	---	---
Oxidation (PA)	%	64	73	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level has decreased, but is still abnormal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.1	■ 0.1	---	---
Nitration (PA)	%	75	84	---	---
Sulfation (PA)	%	56	59	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	■ 0.8	---	---
Silicon	ppm	■ 6	■ 26	---	---
Sodium	ppm	■ 0	■ 4	---	---
Potassium	ppm	■ 2	■ 4	---	---



WEAR METALS

Iron	ppm	■ 7	■ 14	---	---
Copper	ppm	▲ 68	▲ 194	---	---
Lead	ppm	■ 0	■ 2	---	---
Tin	ppm	■ <1	■ 3	---	---
Aluminum	ppm	■ 2	■ 4	---	---
Chromium	ppm	■ 0	■ <1	---	---
Molybdenum	ppm	■ 53	■ 76	---	---
Nickel	ppm	■ 0	■ <1	---	---
Titanium	ppm	■ <1	■ 0	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ 0	■ 3	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	■ 1150	■ 2143	---	---
Magnesium	ppm	■ 752	■ 173	---	---
Zinc	ppm	■ 1059	■ 1196	---	---
Phosphorus	ppm	■ 855	■ 962	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 4	■ 18	---	---

Depot: SIMCHIIL
Unique No: 10766811
Signed: Jonathan Hester
Report Date: 04 Dec 2023



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GRAPHS

