



# CONSTRUCTION EQUIPMENT

NEWPORT SAND VOLVO L250G 3013 - DIESEL ENGINE



**Sample No:** VCP422285  
**Oil Type:** KENDALL SUPER-D 3 SAE 15W40  
**Job No:** NEWPORT SAND



## SAMPLE INFORMATION

Sample Number	VCP422285	VCP422290	---	---
Sample Date	09 Aug 2023	27 Jul 2023	---	---
Machine Hours	0	15254	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---



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## OIL CONDITION

Visc @ 100°C	cSt	▲ 9.8	▲ 8.7	---	---
Base Number (BN)	mg KOH/g	■ 8.5	▲ 3.0	---	---
Oxidation (PA)	%	52	71	---	---



## CONTAMINATION

Soot %	%	■ 0	■ 0.5	---	---
Nitration (PA)	%	47	64	---	---
Sulfation (PA)	%	51	67	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	▲ 7.3	■ 0.3	---	---
Silicon	ppm	■ 11	■ 19	---	---
Sodium	ppm	■ 0	■ 6	---	---
Potassium	ppm	■ 3	■ 3	---	---



## WEAR METALS

Iron	ppm	■ 4	▲ 193	---	---
Copper	ppm	■ 2	■ 9	---	---
Lead	ppm	■ <1	■ 13	---	---
Tin	ppm	■ 0	■ <1	---	---
Aluminum	ppm	■ <1	■ 7	---	---
Chromium	ppm	■ 0	■ <1	---	---
Molybdenum	ppm	■ 3	■ 5	---	---
Nickel	ppm	■ 0	■ 4	---	---
Titanium	ppm	■ 65	■ 30	---	---
Silver	ppm	■ <1	■ 0	---	---
Manganese	ppm	■ 0	■ 2	---	---
Vanadium	ppm	<1	<1	---	---



## ADDITIVES

Calcium	ppm	1345	■ 1164	---	---
Magnesium	ppm	■ 308	■ 219	---	---
Zinc	ppm	■ 897	■ 710	---	---
Phosphorus	ppm	■ 888	■ 647	---	---
Barium	ppm	■ 2	■ 0	---	---
Boron	ppm	■ 127	■ 16	---	---

## Diagnosis

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. All component wear rates are normal. The wear metal levels do not reflect the reported failure. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity.

**Depot:** VOLV00124  
**Unique No:** 10603054  
**Signed:** Don Baldrige  
**Report Date:** 15 Aug 2023



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## GRAPHS

