



# CONSTRUCTION EQUIPMENT

RYAN GOLF VOLVO EC480EL 314823 - DIESEL ENGINE



**Sample No:** VCP440910  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** RYAN GOLF



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## SAMPLE INFORMATION

Sample Number	VCP440910	---	---	---
Sample Date	14 Feb 2024	---	---	---
Machine Hours	3737	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---



## OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	---	---	---
Base Number (BN)	mg KOH/g	█ 8.9	---	---	---
Oxidation (PA)	%	72	---	---	---



## CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 1.2	---	---	---
Nitration (PA)	%	76	---	---	---
Sulfation (PA)	%	60	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	▲ 24	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 2	---	---	---



## WEAR METALS

Iron	ppm	█ 25	---	---	---
Copper	ppm	█ 5	---	---	---
Lead	ppm	█ 3	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 4	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 51	---	---	---
Nickel	ppm	█ 3	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	<1	---	---	---



## ADDITIVES

Calcium	ppm	█ 1297	---	---	---
Magnesium	ppm	█ 595	---	---	---
Zinc	ppm	█ 1087	---	---	---
Phosphorus	ppm	█ 893	---	---	---
Barium	ppm	█ 1	---	---	---
Boron	ppm	█ 8	---	---	---

## Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** VOLVO0093  
**Unique No:** 10900459  
**Signed:** Sean Felton  
**Report Date:** 29 Feb 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

