



# CONSTRUCTION EQUIPMENT

634846 RYAN GOLF VOLVO A45G 352377 - DIESEL ENGINE



**Sample No:** VCP432440  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 634846 RYAN GOLF



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## SAMPLE INFORMATION

Sample Number	VCP432440	VCP345859	---	---
Sample Date	05 Dec 2023	04 Feb 2022	---	---
Machine Hours	4150	1992	---	---
Oil Hours	500	0	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	NORMAL	SEVERE	---	---



## OIL CONDITION

Visc @ 100°C	cSt	█ 12.6	---	---	---
Base Number (BN)	mg KOH/g	█ 9.0	█ 13.9	---	---
Oxidation (PA)	%	77	84	---	---



## CONTAMINATION

Water	%	NEG	█ 1.02	---	---
Soot %	%	█ 0.6	█ 0.1	---	---
Nitration (PA)	%	77	67	---	---
Sulfation (PA)	%	59	56	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 5	█ 9	---	---
Sodium	ppm	█ 2	█ 4	---	---
Potassium	ppm	█ 0	█ <1	---	---



## WEAR METALS

Iron	ppm	█ 13	█ 6	---	---
Copper	ppm	█ 2	█ 59	---	---
Lead	ppm	█ 2	█ <1	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 5	█ 0	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 45	█ 38	---	---
Nickel	ppm	█ 3	█ <1	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	█ 0	█ 2	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	0	0	---	---



## ADDITIVES

Calcium	ppm	█ 1702	█ 1715	---	---
Magnesium	ppm	█ 483	█ 508	---	---
Zinc	ppm	█ 1030	█ 894	---	---
Phosphorus	ppm	█ 907	█ 778	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 18	█ 71	---	---

## Diagnosis

Resample at the next service interval to monitor. All 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 acceptable for the time in service.

**Depot:** VOLVO0093  
**Unique No:** 10845922  
**Signed:** Sean Felton  
**Report Date:** 26 Jan 2024

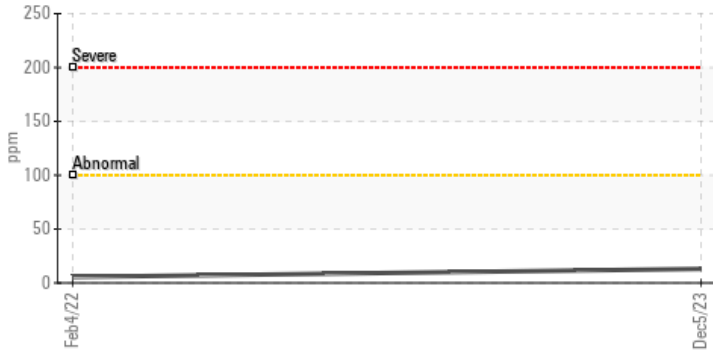


# CONSTRUCTION EQUIPMENT



## GRAPHS

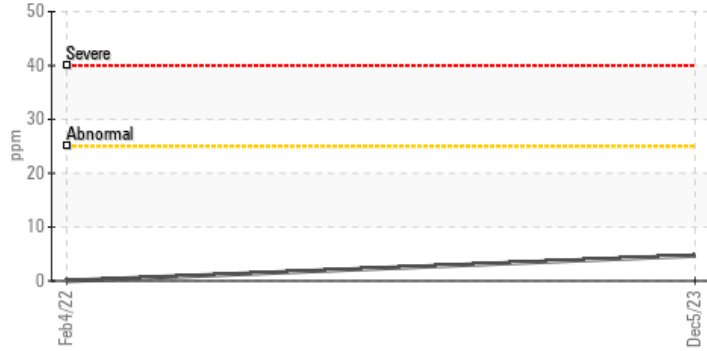
### Iron (ppm)



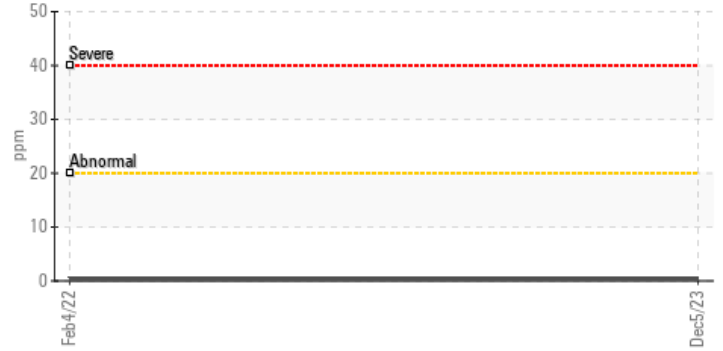
### Lead (ppm)



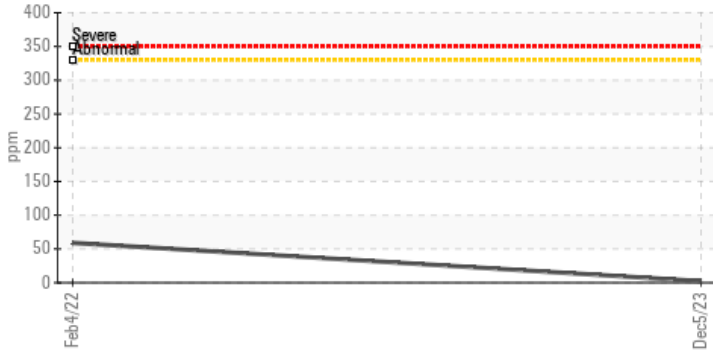
### Aluminum (ppm)



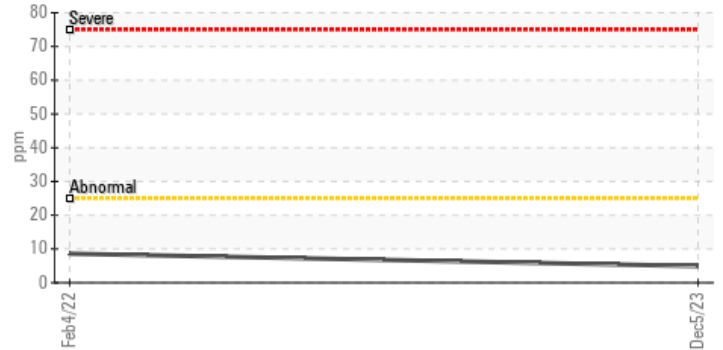
### Chromium (ppm)



### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

