



# CONSTRUCTION EQUIPMENT

S50401976 FORCE DEMO VOLVO ECR235EL 314282 - DIESEL ENGINE



**Sample No:** VCP434475  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** S50401976 FORCE DEMO



## SAMPLE INFORMATION

Sample Number	VCP434475	VCP362646	---	---
Sample Date	24 Oct 2023	04 May 2022	---	---
Machine Hours	2407	1171	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

**VCES- VOLVO CONSTRUCTION EQUIPMENT**  
 22099 KNABE ROAD  
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## OIL CONDITION

Visc @ 100°C	cSt	█ 12.9	█ 12.9	---	---
Base Number (BN)	mg KOH/g	█ 4.9	█ 10.6	---	---
Oxidation (PA)	%	█ 103	█ 90	---	---

## 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 suitable for further service.



## CONTAMINATION

Soot %	%	█ 0.3	█ 0.1	---	---
Nitration (PA)	%	█ 98	█ 73	---	---
Sulfation (PA)	%	█ 69	█ 66	---	---
Glycol	%	█ NEG	█ NEG	---	---
Fuel	%	█ <1.0	█ <1.0	---	---
Silicon	ppm	█ 9	█ 6	---	---
Sodium	ppm	█ 3	█ 2	---	---
Potassium	ppm	█ 2	█ 0	---	---



## WEAR METALS

Iron	ppm	█ 34	█ 13	---	---
Copper	ppm	█ 3	█ 4	---	---
Lead	ppm	█ 6	█ <1	---	---
Tin	ppm	█ 2	█ 2	---	---
Aluminum	ppm	█ 7	█ 3	---	---
Chromium	ppm	█ 2	█ <1	---	---
Molybdenum	ppm	█ 40	█ 31	---	---
Nickel	ppm	█ <1	█ 1	---	---
Titanium	ppm	█ <1	█ <1	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	█ 0	█ 0	---	---



## ADDITIVES

Calcium	ppm	█ 1468	█ 1558	---	---
Magnesium	ppm	█ 560	█ 438	---	---
Zinc	ppm	█ 1059	█ 959	---	---
Phosphorus	ppm	█ 840	█ 814	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 16	█ 30	---	---

**Depot:** VOLVO4486  
**Unique No:** 10724526  
**Signed:** Sean Felton  
**Report Date:** 03 Nov 2023



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## GRAPHS

