



# CONSTRUCTION EQUIPMENT

## A12460 VOLVO EC290BLC 11337 - DIESEL ENGINE



**Sample No:** VCP439384  
**Oil Type:** MOBIL 15W40  
**Job No:** A12460



### SAMPLE INFORMATION

Sample Number	<b>VCP439384</b>	VCP439460	VCP226994	VCP096656
Sample Date	<b>12 Apr 2024</b>	18 Dec 2023	17 Sep 2018	03 Mar 2010
Machine Hours	<b>1515</b>	1280	8260	3935
Oil Hours	<b>250</b>	0	250	250
Oil Changed	<b>Changed</b>	N/A	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**DYER QUARRY**  
P.O. BOX 188, 1275 ROCK HOLLOW ROAD  
BIRDSBORO, PA  
US 19508  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.7</b>	13.0	13.19	13.8
Base Number (BN)	mg KOH/g	<b>9.7</b>	9.3	---	---
Oxidation (PA)	%	<b>71</b>	70	83	48

### 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

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.1	0.2	0
Nitration (PA)	%	<b>61</b>	60	62	50
Sulfation (PA)	%	<b>57</b>	57	61	47
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>8</b>	8	15	4
Sodium	ppm	<b>3</b>	<1	6	<1
Potassium	ppm	<b>&lt;1</b>	<1	4	2

### WEAR METALS

Iron	ppm	<b>11</b>	9	21	6
Copper	ppm	<b>&lt;1</b>	0	2	<1
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>&lt;1</b>	<1	0	0
Aluminum	ppm	<b>3</b>	3	6	2
Chromium	ppm	<b>&lt;1</b>	<1	2	<1
Molybdenum	ppm	<b>39</b>	42	43	5
Nickel	ppm	<b>0</b>	<1	<1	<1
Titanium	ppm	<b>16</b>	20	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	0	<1	<1
Vanadium	ppm	<b>&lt;1</b>	<1	0	0

### ADDITIVES

Calcium	ppm	<b>1638</b>	1649	1846	2239
Magnesium	ppm	<b>591</b>	554	557	284
Zinc	ppm	<b>1104</b>	1221	889	1212
Phosphorus	ppm	<b>943</b>	1028	743	1050
Barium	ppm	<b>0</b>	0	0	<1
Boron	ppm	<b>67</b>	120	40	6

**Depot:** DYEBIR  
**Unique No:** 10990949  
**Signed:** Wes Davis  
**Report Date:** 22 Apr 2024



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## GRAPHS

