



# CONSTRUCTION EQUIPMENT

## G59963 M-R LAND EXC VOLVO EC290 13229 - DIESEL ENGINE



**Sample No:** VCE63600  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** G59963 M-R LAND EXC



**CHADWICK-BAROSS INC**  
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### SAMPLE INFORMATION

Sample Number	<b>VCE63600</b>	VCP53867	---	---
Sample Date	<b>11 Dec 2023</b>	11 Jul 2006	---	---
Machine Hours	<b>12007</b>	966	---	---
Oil Hours	<b>0</b>	0	---	---
Oil Changed	<b>Not Chngd</b>	N/A	---	---
Sample Status	<b>NORMAL</b>	NORMAL	---	---

### OIL CONDITION

Visc @ 100°C	cSt	<b>13.8</b>	13.7	---	---
Base Number (BN)	mg KOH/g	<b>8.8</b>	---	---	---
Oxidation (PA)	%	<b>64</b>	55	---	---

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	---	---
Soot %	%	<b>0.1</b>	0.1	---	---
Nitration (PA)	%	<b>55</b>	10	---	---
Sulfation (PA)	%	<b>52</b>	17	---	---
Glycol	%	<b>NEG</b>	NEG	---	---
Fuel	%	<b>&lt;1.0</b>	<1.0	---	---
Silicon	ppm	<b>4</b>	6	---	---
Sodium	ppm	<b>2</b>	1	---	---
Potassium	ppm	<b>2</b>	5	---	---

### WEAR METALS

Iron	ppm	<b>3</b>	8	---	---
Copper	ppm	<b>&lt;1</b>	<1	---	---
Lead	ppm	<b>1</b>	<1	---	---
Tin	ppm	<b>&lt;1</b>	4	---	---
Aluminum	ppm	<b>2</b>	4	---	---
Chromium	ppm	<b>&lt;1</b>	2	---	---
Molybdenum	ppm	<b>60</b>	65	---	---
Nickel	ppm	<b>0</b>	<1	---	---
Titanium	ppm	<b>0</b>	0	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>0</b>	2	---	---
Vanadium	ppm	<b>&lt;1</b>	0	---	---

### ADDITIVES

Calcium	ppm	<b>1315</b>	2707	---	---
Magnesium	ppm	<b>757</b>	454	---	---
Zinc	ppm	<b>1335</b>	1308	---	---
Phosphorus	ppm	<b>1046</b>	1194	---	---
Barium	ppm	<b>0</b>	0	---	---
Boron	ppm	<b>34</b>	46	---	---

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. No abnormal wear or visible metal detected. 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.

**Depot:** VOLVO0049  
**Unique No:** 10795067  
**Signed:** Don Baldrige  
**Report Date:** 21 Dec 2023



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## GRAPHS

