



# CONSTRUCTION EQUIPMENT

## X59174 SOUTHERN REC Y VOLVO EC250EL 314100 - DIESEL ENGINE



**Sample No:** VCP440832  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** X59174 SOUTHERN REC Y



### SAMPLE INFORMATION

Sample Number	<b>VCP440832</b>	VCP406839	VCP408062	VCP379170
Sample Date	<b>01 Feb 2024</b>	08 Dec 2023	15 Jun 2023	30 Aug 2022
Machine Hours	<b>3516</b>	3314	2382	1707
Oil Hours	<b>500</b>	0	0	0
Oil Changed	<b>Changed</b>	Not Chngd	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.8</b>	12.8	13.2	13.3
Base Number (BN)	mg KOH/g	<b>10.4</b>	10.5	10.3	10.8
Oxidation (PA)	%	<b>84</b>	82	88	91

### 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	0.2
Nitration (PA)	%	<b>57</b>	51	63	70
Sulfation (PA)	%	<b>62</b>	61	63	68
Glycol	%	<b>NEG</b>	0.0	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>7</b>	6	6	7
Sodium	ppm	<b>0</b>	1	2	3
Potassium	ppm	<b>5</b>	<1	4	14



### WEAR METALS

Iron	ppm	<b>10</b>	4	9	12
Copper	ppm	<b>2</b>	1	3	4
Lead	ppm	<b>1</b>	<1	<1	<1
Tin	ppm	<b>2</b>	0	1	1
Aluminum	ppm	<b>3</b>	2	4	10
Chromium	ppm	<b>1</b>	<1	<1	<1
Molybdenum	ppm	<b>41</b>	40	41	38
Nickel	ppm	<b>1</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>&lt;1</b>	0	0	<1
Manganese	ppm	<b>2</b>	0	<1	<1
Vanadium	ppm	<b>&lt;1</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>1700</b>	1660	1727	1719
Magnesium	ppm	<b>533</b>	440	527	481
Zinc	ppm	<b>1181</b>	1151	1132	942
Phosphorus	ppm	<b>997</b>	940	934	764
Barium	ppm	<b>0</b>	0	0	1
Boron	ppm	<b>59</b>	47	41	50

**Depot:** SCOSAI  
**Unique No:** 10869641  
**Signed:** Wes Davis  
**Report Date:** 07 Feb 2024



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## GRAPHS

