



# CONSTRUCTION EQUIPMENT

## SW-35460-2 MAVERICK VOLVO EC380E 310214 - DIESEL ENGINE



**Sample No:** VCP445957  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SW-35460-2 MAVERICK



### SAMPLE INFORMATION

Sample Number	<b>VCP445957</b>	VCP443482	VCP400935	---
Sample Date	<b>11 Jun 2024</b>	10 Nov 2023	26 Apr 2023	---
Machine Hours	<b>8649</b>	8042	7547	---
Oil Hours	<b>617</b>	500	500	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>ATTENTION</b>	ATTENTION	ABNORMAL	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>11.4</b>	12.1	11.8	---
Base Number (BN)	mg KOH/g	<b>6.9</b>	7.6	7.6	---
Oxidation (PA)	%	<b>56</b>	62	76	---

### Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.1</b>	0.1	0.1	---
Nitration (PA)	%	<b>67</b>	59	58	---
Sulfation (PA)	%	<b>50</b>	53	57	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	2.1	---
Silicon	ppm	<b>4</b>	3	3	---
Sodium	ppm	<b>5</b>	1	2	---
Potassium	ppm	<b>4</b>	0	0	---



### WEAR METALS

Iron	ppm	<b>6</b>	2	3	---
Copper	ppm	<b>3</b>	0	4	---
Lead	ppm	<b>&lt;1</b>	<1	0	---
Tin	ppm	<b>&lt;1</b>	<1	0	---
Aluminum	ppm	<b>2</b>	<1	<1	---
Chromium	ppm	<b>0</b>	0	0	---
Molybdenum	ppm	<b>60</b>	57	34	---
Nickel	ppm	<b>&lt;1</b>	0	0	---
Titanium	ppm	<b>&lt;1</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	0	<1	---



### ADDITIVES

Calcium	ppm	<b>1217</b>	1132	1190	---
Magnesium	ppm	<b>836</b>	928	362	---
Zinc	ppm	<b>1227</b>	1255	781	---
Phosphorus	ppm	<b>1037</b>	1043	634	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>18</b>	9	50	---

**Depot:** VOLVO8770  
**Unique No:** 11088277  
**Signed:** Don Baldrige  
**Report Date:** 21 Jun 2024



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## GRAPHS

