



# CONSTRUCTION EQUIPMENT

## SW1026724 STEFFY VOLVO ECR355E 314552 - DIESEL ENGINE



**Sample No:** VCP443377  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SW1026724 STEFFY



### SAMPLE INFORMATION

Sample Number	<b>VCP443377</b>	VCP406936	VCP379847	---
Sample Date	<b>25 Nov 2023</b>	24 Jun 2023	17 Feb 2023	---
Machine Hours	<b>1815</b>	1248	708	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

**ARNOLD MACHINERY COMPANY**  
 4323 EAST WINSLOW AVENUE  
 PHOENIX, AZ  
 US 85040  
 Contact: RANDY PRZEKURAT  
 randyp@arnoldmachinery.com  
 T:  
 F: (602)414-1904



### OIL CONDITION

Visc @ 100°C	cSt	<b>13.1</b>	13.5	12.9	---
Base Number (BN)	mg KOH/g	<b>9.7</b>	9.5	6.6	---
Oxidation (PA)	%	<b>83</b>	67	51	---

### 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	---
Soot %	%	<b>0.2</b>	0.2	0.2	---
Nitration (PA)	%	<b>63</b>	64	63	---
Sulfation (PA)	%	<b>60</b>	57	54	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>7</b>	7	17	---
Sodium	ppm	<b>0</b>	2	1	---
Potassium	ppm	<b>&lt;1</b>	1	4	---



### WEAR METALS

Iron	ppm	<b>10</b>	10	18	---
Copper	ppm	<b>3</b>	4	18	---
Lead	ppm	<b>0</b>	0	3	---
Tin	ppm	<b>1</b>	2	3	---
Aluminum	ppm	<b>2</b>	<1	4	---
Chromium	ppm	<b>&lt;1</b>	<1	<1	---
Molybdenum	ppm	<b>44</b>	55	18	---
Nickel	ppm	<b>&lt;1</b>	2	9	---
Titanium	ppm	<b>&lt;1</b>	<1	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>0</b>	<1	3	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>1631</b>	1435	2108	---
Magnesium	ppm	<b>533</b>	895	271	---
Zinc	ppm	<b>1120</b>	1329	1083	---
Phosphorus	ppm	<b>895</b>	1055	902	---
Barium	ppm	<b>2</b>	15	0	---
Boron	ppm	<b>30</b>	10	39	---

**Depot:** VOLVO6174  
**Unique No:** 10767957  
**Signed:** Wes Davis  
**Report Date:** 05 Dec 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

