



# CONSTRUCTION EQUIPMENT

SW1027835 STEFFY VOLVO ECR235E 314278 - DIESEL ENGINE



**Sample No:** VCP419575  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SW1027835 STEFFY



## SAMPLE INFORMATION

Sample Number	<b>VCP419575</b>	VCP412327	---	---
Sample Date	<b>16 Dec 2023</b>	15 Jul 2023	---	---
Machine Hours	<b>2210</b>	1700	---	---
Oil Hours	<b>0</b>	0	---	---
Oil Changed	<b>Changed</b>	Changed	---	---
Sample Status	<b>NORMAL</b>	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>14.1</b>	13.5	---	---
Base Number (BN)	mg KOH/g	<b>7.8</b>	9.1	---	---
Oxidation (PA)	%	<b>111</b>	84	---	---



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	---	---
Soot %	%	<b>0.2</b>	0.2	---	---
Nitration (PA)	%	<b>101</b>	76	---	---
Sulfation (PA)	%	<b>68</b>	61	---	---
Glycol	%	<b>NEG</b>	NEG	---	---
Fuel	%	<b>&lt;1.0</b>	<1.0	---	---
Silicon	ppm	<b>6</b>	9	---	---
Sodium	ppm	<b>3</b>	2	---	---
Potassium	ppm	<b>0</b>	<1	---	---



## WEAR METALS

Iron	ppm	<b>18</b>	15	---	---
Copper	ppm	<b>1</b>	1	---	---
Lead	ppm	<b>&lt;1</b>	0	---	---
Tin	ppm	<b>&lt;1</b>	2	---	---
Aluminum	ppm	<b>2</b>	4	---	---
Chromium	ppm	<b>1</b>	1	---	---
Molybdenum	ppm	<b>41</b>	64	---	---
Nickel	ppm	<b>0</b>	<1	---	---
Titanium	ppm	<b>0</b>	0	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>&lt;1</b>	<1	---	---
Vanadium	ppm	<b>0</b>	0	---	---



## ADDITIVES

Calcium	ppm	<b>1814</b>	1783	---	---
Magnesium	ppm	<b>531</b>	653	---	---
Zinc	ppm	<b>1176</b>	1360	---	---
Phosphorus	ppm	<b>890</b>	1113	---	---
Barium	ppm	<b>&lt;1</b>	1	---	---
Boron	ppm	<b>27</b>	89	---	---

## 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.

**Depot:** VOLVO6174  
**Unique No:** 10805112  
**Signed:** Don Baldrige  
**Report Date:** 27 Dec 2023



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## GRAPHS

