



# CONSTRUCTION EQUIPMENT

A11205 VOLVO ECR235 314555 - SWING DRIVE



**Sample No:** VCP440554  
**Oil Type:** MOBIL MOBILUBE HD 80W90  
**Job No:** A11205



## SAMPLE INFORMATION

Sample Number	<b>VCP440554</b>	VCP361440	VCP310364	---
Sample Date	<b>13 Oct 2023</b>	02 May 2022	28 Jul 2021	---
Machine Hours	<b>2475</b>	1178	520	---
Oil Hours	<b>1000</b>	0	520	---
Oil Changed	<b>Changed</b>	Not Chngd	Changed	---
Sample Status	<b>ATTENTION</b>	ATTENTION	NORMAL	---

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## OIL CONDITION

Visc @ 40°C	cSt	<b>▲ 311</b>	▲ 312	■ 182	---
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## CONTAMINATION

Silicon	ppm	<b>■ 7</b>	■ 4	■ 10	---
Sodium	ppm	<b>■ &lt;1</b>	■ 0	■ 2	---
Potassium	ppm	<b>■ &lt;1</b>	■ <1	■ <1	---



## WEAR METALS

Iron	ppm	<b>■ 51</b>	■ 27	■ 192	---
Copper	ppm	<b>■ 4</b>	■ 3	■ 13	---
Lead	ppm	<b>■ 0</b>	■ 0	■ <1	---
Tin	ppm	<b>■ &lt;1</b>	0	<1	---
Aluminum	ppm	<b>■ &lt;1</b>	<1	1	---
Chromium	ppm	<b>■ &lt;1</b>	<1	3	---
Molybdenum	ppm	<b>■ 0</b>	■ <1	■ 1	---
Nickel	ppm	<b>■ 0</b>	0	0	---
Titanium	ppm	<b>0</b>	0	<1	---
Silver	ppm	<b>&lt;1</b>	<1	0	---
Manganese	ppm	<b>■ 1</b>	■ <1	■ 4	---
Vanadium	ppm	<b>0</b>	0	0	---



## ADDITIVES

Calcium	ppm	<b>■ 27</b>	■ 21	■ 4	---
Magnesium	ppm	<b>■ 3</b>	■ 3	■ 1	---
Zinc	ppm	<b>■ 2</b>	■ 7	■ 11	---
Phosphorus	ppm	<b>■ 980</b>	■ 1037	■ 312	---
Barium	ppm	<b>■ 0</b>	■ 0	■ 0	---
Boron	ppm	<b>■ 165</b>	■ 201	■ 16	---

## Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. 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 higher than normal. Confirm oil type.

**Depot:** JAAPHI  
**Unique No:** 10712196  
**Signed:** Don Baldrige  
**Report Date:** 27 Oct 2023



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## GRAPHS

