



# CONSTRUCTION EQUIPMENT

## A11204 VOLVO ECR235E 310119 - SWING DRIVE



**Sample No:** VCP412821  
**Oil Type:** MOBIL MOBILUBE HD 80W90  
**Job No:** A11204



### SAMPLE INFORMATION

Sample Number	<b>VCP412821</b>	VCP409791	VCP372186	VCP356332
Sample Date	<b>27 Sep 2023</b>	18 Mar 2023	09 Jun 2022	28 Feb 2022
Machine Hours	<b>5960</b>	5440	4836	4490
Oil Hours	<b>500</b>	1000	0	1000
Oil Changed	<b>Not Changd</b>	Changed	Not Changd	Changed
Sample Status	<b>ATTENTION</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>▲ 316</b>	■ 282	■ 279	■ 306
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### CONTAMINATION

Silicon	ppm	■ <b>3</b>	■ 6	■ 4	■ 2
Sodium	ppm	■ <b>0</b>	■ 0	■ 0	■ <1
Potassium	ppm	■ <b>0</b>	■ <1	■ 0	■ <1



### WEAR METALS

Iron	ppm	■ <b>17</b>	■ 86	■ 65	■ 51
Copper	ppm	■ <b>0</b>	■ 3	■ 2	■ 2
Lead	ppm	■ <b>0</b>	■ 0	■ 0	■ 0
Tin	ppm	■ <b>0</b>	■ 0	<1	0
Aluminum	ppm	■ <b>1</b>	■ <1	<1	1
Chromium	ppm	■ <b>0</b>	■ <1	<1	<1
Molybdenum	ppm	■ <b>0</b>	■ <1	■ 2	■ 1
Nickel	ppm	■ <b>0</b>	■ 0	0	<1
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	■ <b>&lt;1</b>	■ <1	■ <1	■ <1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	■ <b>17</b>	■ 28	■ 51	■ 47
Magnesium	ppm	■ <b>8</b>	■ 7	■ 3	■ 10
Zinc	ppm	■ <b>15</b>	■ 15	■ 28	■ 18
Phosphorus	ppm	■ <b>1083</b>	■ 1229	■ 1131	■ 999
Barium	ppm	■ <b>0</b>	■ 0	■ 0	■ 0
Boron	ppm	■ <b>31</b>	■ 159	■ 200	■ 152

### 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 oil viscosity is higher than normal. Confirm oil type.

**Depot:** JAAPHI  
**Unique No:** 10673207  
**Signed:** Don Baldrige  
**Report Date:** 04 Oct 2023



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## VOLVO GRAPHS

