



# CONSTRUCTION EQUIPMENT

## A1136 FREEDOM VOLVO EC160E 314382 - SWING DRIVE



**Sample No:** VCP434104  
**Oil Type:** MOBIL MOBILUBE HD 80W90  
**Job No:** A11336 FREEDOM



**HOFFMAN EQUIPMENT - LIONVILLE**  
 120 GORDON DRIVE  
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### SAMPLE INFORMATION

Sample Number	<b>VCP434104</b>	VCP409790	VCP364105	---
Sample Date	<b>27 Oct 2023</b>	27 Mar 2023	24 Aug 2022	---
Machine Hours	<b>3255</b>	2125	512	---
Oil Hours	<b>1000</b>	1000	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---



### OIL CONDITION

Visc @ 40°C	cSt	<b>322</b>	121	125	---
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### CONTAMINATION

Silicon	ppm	<b>0</b>	24	21	---
Sodium	ppm	<b>0</b>	<1	0	---
Potassium	ppm	<b>0</b>	1	2	---



### WEAR METALS

Iron	ppm	<b>0</b>	162	117	---
Copper	ppm	<b>0</b>	54	71	---
Lead	ppm	<b>0</b>	0	<1	---
Tin	ppm	<b>0</b>	<1	<1	---
Aluminum	ppm	<b>0</b>	3	3	---
Chromium	ppm	<b>0</b>	3	2	---
Molybdenum	ppm	<b>0</b>	<1	<1	---
Nickel	ppm	<b>0</b>	<1	0	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>0</b>	4	4	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>89</b>	9	14	---
Magnesium	ppm	<b>3</b>	0	<1	---
Zinc	ppm	<b>38</b>	112	119	---
Phosphorus	ppm	<b>1009</b>	368	304	---
Barium	ppm	<b>0</b>	0	6	---
Boron	ppm	<b>7</b>	<1	<1	---

### 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 condition of the oil is acceptable for the time in service.

**Depot:** VOLVO8879  
**Unique No:** 10738473  
**Signed:** Sean Felton  
**Report Date:** 14 Nov 2023



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## GRAPHS

