



# CONSTRUCTION EQUIPMENT

## 688511 VOLVO ECR145 310112 - SWING DRIVE



**Sample No:** VCP455115  
**Oil Type:** GEAR OIL SAE 80W140  
**Job No:** 688511



### SAMPLE INFORMATION

Sample Number	<b>VCP455115</b>	VCP320427	VCP274893	VCP223745
Sample Date	<b>19 Mar 2024</b>	25 Aug 2021	17 Apr 2020	17 Aug 2018
Machine Hours	<b>6977</b>	5286	4249	2411
Oil Hours	<b>0</b>	0	0	2411
Oil Changed	<b>Changed</b>	Changed	Changed	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	ATTENTION	ATTENTION

**HUBBARD CONSTRUCTION**  
 303 WEST LANDSTREET ROAD  
 ORLANDO, FL  
 US 32824  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>238</b>	275	159	149.1
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>10</b>	4	13	10
Sodium	ppm	<b>0</b>	1	4	4
Potassium	ppm	<b>1</b>	0	3	0



### WEAR METALS

Iron	ppm	<b>482</b>	85	383	403
Copper	ppm	<b>12</b>	7	19	21
Lead	ppm	<b>1</b>	0	<1	1
Tin	ppm	<b>&lt;1</b>	0	0	0
Aluminum	ppm	<b>3</b>	0	1	1
Chromium	ppm	<b>4</b>	<1	4	4
Molybdenum	ppm	<b>3</b>	2	0	0
Nickel	ppm	<b>&lt;1</b>	<1	<1	<1
Titanium	ppm	<b>&lt;1</b>	<1	<1	<1
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	<b>4</b>	1	4	4
Vanadium	ppm	<b>&lt;1</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>56</b>	53	29	29
Magnesium	ppm	<b>13</b>	12	8	9
Zinc	ppm	<b>101</b>	26	47	42
Phosphorus	ppm	<b>1114</b>	939	1267	1301
Barium	ppm	<b>2</b>	0	2	2
Boron	ppm	<b>143</b>	137	36	35

### Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W140. Please confirm.

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:** HUBORL  
**Unique No:** 10942416  
**Signed:** Wes Davis  
**Report Date:** 26 Mar 2024



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## GRAPHS

