



# CONSTRUCTION EQUIPMENT

## SW1021633 VOLVO ECR40D 14357 - REAR LEFT FINAL DRIVE



**Sample No:** VCP419393  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** SW1021633



### SAMPLE INFORMATION

Sample Number	<b>VCP419393</b>	VCP319793	---	---
Sample Date	<b>08 Aug 2023</b>	03 Nov 2021	---	---
Machine Hours	<b>0</b>	1196	---	---
Oil Hours	<b>0</b>	1196	---	---
Oil Changed	<b>Changed</b>	Changed	---	---
Sample Status	<b>ATTENTION</b>	NORMAL	---	---

**ARNOLD MACHINERY COMPANY**  
 2975 WEST 2100 SOUTH  
 SALT LAKE CITY, UT  
 US 84119  
 Contact: TJ LARK  
 tlark@arnoldmachinery.com  
 T: (801)972-4000  
 F: (801)975-9434



### OIL CONDITION

Visc @ 40°C	cSt	<b>▲ 84.0</b>	■ 86.5	---	---
-------------	-----	---------------	--------	-----	-----



### CONTAMINATION

Silicon	ppm	■ <b>69</b>	■ 39	---	---
Sodium	ppm	■ <b>7</b>	■ 3	---	---
Potassium	ppm	■ <b>5</b>	■ 0	---	---

### Diagnosis

The oil change at the time of sampling has been noted. 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 lower than normal. Confirm oil type.



### WEAR METALS

Iron	ppm	■ <b>157</b>	■ 220	---	---
Copper	ppm	■ <b>&lt;1</b>	■ 1	---	---
Lead	ppm	■ <b>&lt;1</b>	■ <1	---	---
Tin	ppm	■ <b>0</b>	■ <1	---	---
Aluminum	ppm	■ <b>15</b>	■ 10	---	---
Chromium	ppm	■ <b>3</b>	■ 3	---	---
Molybdenum	ppm	■ <b>35</b>	■ 17	---	---
Nickel	ppm	■ <b>2</b>	0	---	---
Titanium	ppm	<b>&lt;1</b>	<1	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	■ <b>2</b>	■ 4	---	---
Vanadium	ppm	<b>0</b>	0	---	---



### ADDITIVES

Calcium	ppm	■ <b>1971</b>	■ 3844	---	---
Magnesium	ppm	■ <b>449</b>	■ 13	---	---
Zinc	ppm	■ <b>1135</b>	■ 700	---	---
Phosphorus	ppm	■ <b>909</b>	■ 547	---	---
Barium	ppm	■ <b>0</b>	■ 34	---	---
Boron	ppm	■ <b>78</b>	■ 15	---	---

**Depot:** VOLVO8770  
**Unique No:** 10605070  
**Signed:** Don Baldrige  
**Report Date:** 16 Aug 2023



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

