



# CONSTRUCTION EQUIPMENT

## A10849 HSC CONST VOLVO EC160E 314219 - REAR LEFT FINAL DRIVE



**Sample No:** VCP426987  
**Oil Type:** MOBIL MOBILUBE HD 85W140  
**Job No:** A10849 HSC CONST



**HOFFMAN EQUIPMENT - LIONVILLE**  
 120 GORDON DRIVE  
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 US 19341  
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### SAMPLE INFORMATION

Sample Number	<b>VCP426987</b>	VCP377309	VCP348046	---
Sample Date	<b>03 Aug 2023</b>	29 Aug 2022	22 Feb 2022	---
Machine Hours	<b>2235</b>	1193	517	---
Oil Hours	<b>1300</b>	0	517	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>SEVERE</b>	ABNORMAL	NORMAL	---



### OIL CONDITION

Visc @ 40°C	cSt	<b>343</b>	255	168	---
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### CONTAMINATION

Silicon	ppm	<b>2581</b>	102	8	---
Sodium	ppm	<b>49</b>	3	2	---
Potassium	ppm	<b>113</b>	3	1	---



### WEAR METALS

Iron	ppm	<b>4472</b>	386	348	---
Copper	ppm	<b>8</b>	<1	<1	---
Lead	ppm	<b>2</b>	0	0	---
Tin	ppm	<b>1</b>	0	0	---
Aluminum	ppm	<b>391</b>	20	2	---
Chromium	ppm	<b>30</b>	5	8	---
Molybdenum	ppm	<b>3</b>	<1	<1	---
Nickel	ppm	<b>15</b>	0	<1	---
Titanium	ppm	<b>44</b>	2	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>35</b>	4	7	---
Vanadium	ppm	<b>2</b>	0	<1	---



### ADDITIVES

Calcium	ppm	<b>170</b>	41	6	---
Magnesium	ppm	<b>62</b>	3	1	---
Zinc	ppm	<b>23</b>	18	0	---
Phosphorus	ppm	<b>450</b>	1151	309	---
Barium	ppm	<b>0</b>	1	0	---
Boron	ppm	<b>47</b>	184	4	---

### Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

**Depot:** VOLVO8879  
**Unique No:** 10601782  
**Signed:** Don Baldrige  
**Report Date:** 12 Aug 2023



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## GRAPHS

