



# CONSTRUCTION EQUIPMENT

## A10652 VOLVO EC160E 3 10440 - REAR LEFT FINAL DRIVE



**Sample No:** VCP411858  
**Oil Type:** MOBIL MOBILUBE HD 80W90  
**Job No:** A10652



### SAMPLE INFORMATION

Sample Number	<b>VCP411858</b>	VCP363743	VCP261767	VCP250217
Sample Date	<b>07 Jul 2023</b>	27 Jan 2023	27 Feb 2020	19 Jul 2019
Machine Hours	<b>3200</b>	2090	900	575
Oil Hours	<b>1000</b>	1500	500	575
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Changed
Sample Status	<b>ABNORMAL</b>	ABNORMAL	SEVERE	SEVERE

### K C CONSTRUCTION

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### OIL CONDITION

Visc @ 40°C	cSt	<b>313</b>	▲ 531.7	■ 293	■ 197
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### CONTAMINATION

Water	%	---	▲ 0.373	---	---
Silicon	ppm	■ <b>51</b>	■ 19	■ 896	■ 1044
Sodium	ppm	■ <b>0</b>	■ 15	■ 6	■ 6
Potassium	ppm	■ <b>2</b>	■ 24	■ 50	■ 63

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The iron level has decreased, but is still abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. Confirm oil type. The condition of the oil is acceptable for the time in service.



### WEAR METALS

Iron	ppm	▲ <b>681</b>	▲ 1061	▲ 961	■ 1821
Copper	ppm	■ <b>2</b>	■ 1	■ 1	■ 0
Lead	ppm	■ <b>0</b>	■ <1	■ <1	■ 5
Tin	ppm	■ <b>&lt;1</b>	■ 0	■ 0	■ 0
Aluminum	ppm	■ <b>7</b>	■ 17	▲ 254	▲ 250
Chromium	ppm	■ <b>2</b>	▲ 17	■ 7	▲ 17
Molybdenum	ppm	■ <b>&lt;1</b>	■ 1	■ 0	■ 0
Nickel	ppm	■ <b>2</b>	■ 2	■ 3	■ 4
Titanium	ppm	■ <b>&lt;1</b>	■ <1	▲ 16	▲ 19
Silver	ppm	■ <b>0</b>	■ 0	■ 0	■ 0
Manganese	ppm	■ <b>3</b>	■ 13	■ 10	■ 21
Vanadium	ppm	■ <b>0</b>	■ <1	■ 0	■ <1



### ADDITIVES

Calcium	ppm	■ <b>10</b>	■ 27	■ 105	■ 62
Magnesium	ppm	■ <b>0</b>	■ 12	■ 32	■ 13
Zinc	ppm	■ <b>10</b>	■ 14	■ 41	■ 8
Phosphorus	ppm	■ <b>657</b>	■ 270	■ 817	■ 329
Barium	ppm	■ <b>0</b>	■ 131	■ 1	■ 0
Boron	ppm	■ <b>7</b>	■ 0	■ 99	■ 1

**Depot:** KCCIVY  
**Unique No:** 10560372  
**Signed:** Don Baldrige  
**Report Date:** 17 Jul 2023



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## GRAPHS

