



# CONSTRUCTION EQUIPMENT

238406 VOLVO EC220E 310188 - SWING DRIVE



**Sample No:** VCP260288  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:** 238406



## SAMPLE INFORMATION

Sample Number	<b>VCP260288</b>	VCP250000	---	---
Sample Date	<b>30 Mar 2020</b>	09 Sep 2019	---	---
Machine Hours	<b>4011</b>	2990	---	---
Oil Hours	<b>0</b>	1000	---	---
Oil Changed	<b>Changed</b>	Changed	---	---
Sample Status	<b>NORMAL</b>	NORMAL	---	---

## STRONGCO EQUIPMENT--CALGARY

7923 54TH STREET SE  
 CALGARY, AB  
 CA T2C 4R7  
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## OIL CONDITION

Visc @ 40°C	cSt	<b>172</b>	334	---	---
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## CONTAMINATION

Silicon	ppm	<b>6</b>	4	---	---
Sodium	ppm	<b>&lt;1</b>	<1	---	---
Potassium	ppm	<b>1</b>	<1	---	---



## WEAR METALS

Iron	ppm	<b>83</b>	116	---	---
Copper	ppm	<b>3</b>	5	---	---
Lead	ppm	<b>0</b>	0	---	---
Tin	ppm	<b>0</b>	0	---	---
Aluminum	ppm	<b>1</b>	1	---	---
Chromium	ppm	<b>2</b>	2	---	---
Molybdenum	ppm	<b>&lt;1</b>	0	---	---
Nickel	ppm	<b>0</b>	<1	---	---
Titanium	ppm	<b>&lt;1</b>	<1	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>1</b>	2	---	---
Vanadium	ppm	<b>0</b>	0	---	---



## ADDITIVES

Calcium	ppm	<b>8</b>	9	---	---
Magnesium	ppm	<b>&lt;1</b>	2	---	---
Zinc	ppm	<b>8</b>	9	---	---
Phosphorus	ppm	<b>1699</b>	991	---	---
Barium	ppm	<b>&lt;1</b>	<1	---	---
Boron	ppm	<b>180</b>	172	---	---

## Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

**Depot:** VOLVO3909  
**Unique No:** 5031158  
**Signed:** Wes Davis  
**Report Date:** 07 Apr 2020



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## GRAPHS

