



# CONSTRUCTION EQUIPMENT

CAVANAGH 389438 VOLVO EC380E 314152 - SWING DRIVE



**Sample No:** VCE430159  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:** 389438



## SAMPLE INFORMATION

Sample Number	<b>VCE430159</b>	VCP352633	---	---
Sample Date	<b>14 Feb 2024</b>	23 Apr 2023	---	---
Machine Hours	<b>6918</b>	6002	---	---
Oil Hours	<b>0</b>	0	---	---
Oil Changed	<b>Changed</b>	Changed	---	---
Sample Status	<b>NORMAL</b>	NORMAL	---	---

## STRONGCO EQUIPMENT

54 IBER ROAD  
OTTAWA, ON  
CA K2S 1E8  
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## OIL CONDITION

Visc @ 40°C	cSt	<b>144</b>	138	---	---
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## CONTAMINATION

Water	%	<b>NEG</b>	NEG	---	---
Silicon	ppm	<b>12</b>	5	---	---
Sodium	ppm	<b>1</b>	<1	---	---
Potassium	ppm	<b>1</b>	<1	---	---



## WEAR METALS

Iron	ppm	<b>88</b>	105	---	---
Copper	ppm	<b>4</b>	10	---	---
Lead	ppm	<b>&lt;1</b>	<1	---	---
Tin	ppm	<b>0</b>	0	---	---
Aluminum	ppm	<b>2</b>	<1	---	---
Chromium	ppm	<b>&lt;1</b>	2	---	---
Molybdenum	ppm	<b>&lt;1</b>	2	---	---
Nickel	ppm	<b>&lt;1</b>	0	---	---
Titanium	ppm	<b>0</b>	0	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>&lt;1</b>	2	---	---
Vanadium	ppm	<b>0</b>	0	---	---



## ADDITIVES

Calcium	ppm	<b>74</b>	103	---	---
Magnesium	ppm	<b>19</b>	30	---	---
Zinc	ppm	<b>157</b>	69	---	---
Phosphorus	ppm	<b>2055</b>	966	---	---
Barium	ppm	<b>0</b>	<1	---	---
Boron	ppm	<b>128</b>	139	---	---

## 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:** SHESTI  
**Unique No:** 5735581  
**Signed:** Wes Davis  
**Report Date:** 27 Feb 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

