



# CONSTRUCTION EQUIPMENT

HORST VOLVO EC460CL 110503 - SWING DRIVE



**Sample No:** VCP348819  
**Oil Type:** VOLVO SUPER GEAR OIL 75W-80-GO102  
**Job No:** HORST



**HIGHWAY EQUIPMENT AND SUPPLY CO**  
 200 BURKHOLDER DR.  
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 US 17522  
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## SAMPLE INFORMATION

Sample Number	<b>VCP348819</b>	VCP348804	VCP148652	---
Sample Date	<b>28 Jan 2023</b>	27 Jan 2023	18 Dec 2015	---
Machine Hours	<b>9014</b>	9014	3899	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Not Changd	---
Sample Status	<b>ABNORMAL</b>	NORMAL	NORMAL	---



## OIL CONDITION

Visc @ 40°C	cSt	<b>145</b>	148	168.3	---
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## CONTAMINATION

Water	%	<b>▲ 0.401</b>	---	---	---
Silicon	ppm	<b>■ 8</b>	■ 12	■ 7	---
Sodium	ppm	<b>■ 2</b>	■ 1	■ <1	---
Potassium	ppm	<b>■ &lt;1</b>	■ <1	■ 2	---



## WEAR METALS

Iron	ppm	<b>■ 358</b>	■ 375	■ 153	---
Copper	ppm	<b>■ 11</b>	■ 15	■ 9	---
Lead	ppm	<b>■ &lt;1</b>	■ <1	■ 1	---
Tin	ppm	<b>■ 0</b>	■ 0	0	---
Aluminum	ppm	<b>■ 1</b>	■ 2	<1	---
Chromium	ppm	<b>■ 5</b>	■ 5	2	---
Molybdenum	ppm	<b>■ 2</b>	■ 2	0	---
Nickel	ppm	<b>■ 0</b>	■ 0	<1	---
Titanium	ppm	<b>&lt;1</b>	<1	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>■ 3</b>	■ 4	2	---
Vanadium	ppm	<b>0</b>	0	0	---



## ADDITIVES

Calcium	ppm	<b>■ 118</b>	■ 162	221	---
Magnesium	ppm	<b>■ 28</b>	■ 27	10	---
Zinc	ppm	<b>■ 69</b>	■ 90	90	---
Phosphorus	ppm	<b>■ 1044</b>	■ 934	871	---
Barium	ppm	<b>■ 1</b>	■ 1	<1	---
Boron	ppm	<b>■ 139</b>	■ 156	80	---

## Diagnosis

We advise that you check for the source of water entry. 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. Appearance is milky. There is a moderate concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** INSEPH  
**Unique No:** 10321072  
**Signed:** Don Baldrige  
**Report Date:** 03 Feb 2023



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## GRAPHS

