



# CONSTRUCTION EQUIPMENT

## STANLEY VOLVO ECR145E 314461 - REAR LEFT FINAL DRIVE



**Sample No:** VCP447905  
**Oil Type:** GEAR OIL SAE 85W90  
**Job No:** STANLEY



### SAMPLE INFORMATION

Sample Number	<b>VCP447905</b>	VCP310000	---	---
Sample Date	<b>17 Jan 2024</b>	14 Apr 2021	---	---
Machine Hours	<b>1919</b>	471	---	---
Oil Hours	<b>0</b>	0	---	---
Oil Changed	<b>Changed</b>	Changed	---	---
Sample Status	<b>ATTENTION</b>	ABNORMAL	---	---

**MCCLUNG-LOGAN EQUIPMENT CO - RICHMOND**  
 1345 MOUNTAIN ROAD  
 GLEN ALLEN, VA  
 US 23060  
 Contact: KYLE RATLIFFE  
 KRATLIFFE@MCCLUNG-LOGAN.COM  
 T:  
 F: (804)266-1611



### OIL CONDITION

Visc @ 40°C	cSt	<b>▲ 50.3</b>	■ 141	---	---
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### CONTAMINATION

Water	%	<b>NEG</b>	NEG	---	---
Silicon	ppm	■ <b>16</b>	■ 14	---	---
Sodium	ppm	■ <b>4</b>	■ 8	---	---
Potassium	ppm	■ <b>0</b>	■ <1	---	---

### Diagnosis

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. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.



### WEAR METALS

Iron	ppm	■ <b>197</b>	■ 386	---	---
Copper	ppm	■ <b>&lt;1</b>	■ <1	---	---
Lead	ppm	■ <b>0</b>	■ <1	---	---
Tin	ppm	■ <b>12</b>	▲ 35	---	---
Aluminum	ppm	■ <b>3</b>	■ 3	---	---
Chromium	ppm	■ <b>4</b>	■ 8	---	---
Molybdenum	ppm	■ <b>0</b>	■ <1	---	---
Nickel	ppm	■ <b>&lt;1</b>	<1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	■ <b>3</b>	■ 8	---	---
Vanadium	ppm	<1	0	---	---



### ADDITIVES

Calcium	ppm	■ <b>10</b>	■ 31	---	---
Magnesium	ppm	■ <b>0</b>	■ <1	---	---
Zinc	ppm	■ <b>19</b>	■ 42	---	---
Phosphorus	ppm	■ <b>2256</b>	565	---	---
Barium	ppm	■ <b>0</b>	■ 2	---	---
Boron	ppm	■ <b>200</b>	■ 8	---	---

**Depot:** VOLVO8882  
**Unique No:** 10844638  
**Signed:** Don Baldrige  
**Report Date:** 24 Jan 2024



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## GRAPHS

