



# CONSTRUCTION EQUIPMENT

LAKESIDE 8-391799 VOLVO ECR145E 315896 - DIESEL ENGINE



**Sample No:** VCP449496  
**Oil Type:** DIESEL ENGINE OIL SAE 40  
**Job No:** 8-391799



## SAMPLE INFORMATION

Sample Number	<b>VCP449496</b>	VCP381014	VCP352842	---
Sample Date	<b>23 Jan 2024</b>	25 Jan 2023	03 Oct 2022	---
Machine Hours	<b>2044</b>	1007	505	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Not Changd	---
Sample Status	<b>NORMAL</b>	ABNORMAL	NORMAL	---

### STRONGCO EQUIPMENT INC.

1640 ENTERPRISE ROAD  
MISSISSAUGA, ON  
CA L4W 4L4

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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.7</b>	13.3	13.2	---
Oxidation (PA)	%	<b>93</b>	54	46	---



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.2</b>	0	0	---
Nitration (PA)	%	<b>82</b>	65	58	---
Sulfation (PA)	%	<b>65</b>	60	50	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>9</b>	16	17	---
Sodium	ppm	<b>3</b>	3	3	---
Potassium	ppm	<b>1</b>	2	2	---

### Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



## WEAR METALS

Iron	ppm	<b>28</b>	32	20	---
Copper	ppm	<b>6</b>	12	10	---
Lead	ppm	<b>&lt;1</b>	<1	<1	---
Tin	ppm	<b>1</b>	2	2	---
Aluminum	ppm	<b>10</b>	▲ 15	13	---
Chromium	ppm	<b>2</b>	2	2	---
Molybdenum	ppm	<b>36</b>	7	4	---
Nickel	ppm	<b>2</b>	10	10	---
Titanium	ppm	<b>0</b>	<1	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	3	3	---
Vanadium	ppm	<b>0</b>	0	0	---



## ADDITIVES

Calcium	ppm	<b>1811</b>	2359	2325	---
Magnesium	ppm	<b>459</b>	54	58	---
Zinc	ppm	<b>1059</b>	1022	984	---
Phosphorus	ppm	<b>900</b>	946	931	---
Barium	ppm	<b>0</b>	<1	1	---
Boron	ppm	<b>29</b>	7	7	---

**Depot:** SHEMIS  
**Unique No:** 5723028  
**Signed:** Wes Davis  
**Report Date:** 07 Feb 2024



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## GRAPHS

