



# CONSTRUCTION EQUIPMENT

CANNINGTON 8-375957 VOLVO ECR305C 110771 (S/N 10217) - DIESEL ENGINE



**Sample No:** VCP394508  
**Oil Type:** DIESEL ENGINE OIL SAE 40  
**Job No:** 8-375957



## SAMPLE INFORMATION

Sample Number	<b>VCP394508</b>	VCP347060	VCP333774	VCP252040
Sample Date	<b>22 Aug 2023</b>	08 Sep 2022	17 Dec 2021	27 Jan 2020
Machine Hours	<b>3955</b>	3060	2520	1496
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### STRONGCO EQUIPMENT INC.

1640 ENTERPRISE ROAD  
MISSISSAUGA, ON  
CA L4W 4L4

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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.4</b>	14.1	13.3	13.9
Oxidation (PA)	%	<b>82</b>	82	27	80



## CONTAMINATION

Soot %	%	<b>0.5</b>	0.7	0	0.5
Nitration (PA)	%	<b>58</b>	71	26	75
Sulfation (PA)	%	<b>69</b>	68	40	75
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>7</b>	10	8	11
Sodium	ppm	<b>3</b>	4	3	2
Potassium	ppm	<b>&lt;1</b>	2	1	2

### Diagnosis

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 condition of the oil is acceptable for the time in service.



## WEAR METALS

Iron	ppm	<b>10</b>	23	9	21
Copper	ppm	<b>1</b>	8	43	359
Lead	ppm	<b>0</b>	<1	1	9
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>1</b>	3	2	2
Chromium	ppm	<b>&lt;1</b>	1	<1	2
Molybdenum	ppm	<b>43</b>	41	38	34
Nickel	ppm	<b>0</b>	<1	<1	1
Titanium	ppm	<b>0</b>	<1	0	<1
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	<1



## ADDITIVES

Calcium	ppm	<b>1726</b>	1947	1657	1829
Magnesium	ppm	<b>520</b>	458	546	527
Zinc	ppm	<b>1109</b>	1136	1117	977
Phosphorus	ppm	<b>992</b>	1027	979	817
Barium	ppm	<b>0</b>	0	0	<1
Boron	ppm	<b>49</b>	41	55	41

**Depot:** SHEMIS  
**Unique No:** 5631478  
**Signed:** Wes Davis  
**Report Date:** 25 Aug 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

