



# CONSTRUCTION EQUIPMENT

LAKESIDE 8-391797 VOLVO ECR88D 212288 - DIESEL ENGINE



**Sample No:** VCP449370  
**Oil Type:** DIESEL ENGINE OIL SAE 40  
**Job No:** 8-391797



## SAMPLE INFORMATION

Sample Number	<b>VCP449370</b>	VCP332579	VCP352411	VCP333985
Sample Date	<b>22 Jan 2024</b>	06 Mar 2023	27 Oct 2022	16 May 2022
Machine Hours	<b>4535</b>	3980	3546	2983
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

Contact: Janice Cripps  
jcripps@strongco.com  
T: (905)565-3876  
F: (905)670-2338



## OIL CONDITION

Visc @ 100°C	cSt	<b>12.8</b>	13.0	13.2	13.0
Oxidation (PA)	%	<b>89</b>	88	89	87



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0</b>	0	0	0
Nitration (PA)	%	<b>66</b>	63	63	68
Sulfation (PA)	%	<b>65</b>	70	66	69
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	6	6	7
Sodium	ppm	<b>3</b>	3	3	3
Potassium	ppm	<b>&lt;1</b>	0	0	0

### 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>9</b>	8	8	11
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>2</b>	2	2	2
Chromium	ppm	<b>&lt;1</b>	0	0	<1
Molybdenum	ppm	<b>38</b>	41	41	40
Nickel	ppm	<b>&lt;1</b>	0	<1	<1
Titanium	ppm	<b>0</b>	<1	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1661</b>	1828	1738	1695
Magnesium	ppm	<b>489</b>	505	510	512
Zinc	ppm	<b>1035</b>	1106	1101	1093
Phosphorus	ppm	<b>893</b>	1022	973	934
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>44</b>	50	43	48

**Depot:** SHEMIS  
**Unique No:** 5723033  
**Signed:** Wes Davis  
**Report Date:** 07 Feb 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

