



# CONSTRUCTION EQUIPMENT

## SPM658596 WASTE MGMT VOLVO EC250EL 310691 - SWING DRIVE



**Sample No:** VCP382906  
**Oil Type:** SHELL OMALA 220  
**Job No:** SPM658596 WASTE MGMT



### SAMPLE INFORMATION

Sample Number	<b>VCP382906</b>	VCP398369	VCP415433	VCP422605
Sample Date	<b>03 Jan 2024</b>	18 Oct 2023	18 Aug 2023	16 Jun 2023
Machine Hours	<b>19794</b>	13126	14626	15556
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Not Chngd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**ALTA EQUIPMENT CO - ORLAND PARK**  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>196</b>	195	196	197
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>19</b>	15	18	16
Sodium	ppm	<b>0</b>	1	0	2
Potassium	ppm	<b>2</b>	0	<1	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>79</b>	66	61	61
Copper	ppm	<b>4</b>	2	3	3
Lead	ppm	<b>&lt;1</b>	0	<1	0
Tin	ppm	<b>&lt;1</b>	0	0	<1
Aluminum	ppm	<b>1</b>	0	2	1
Chromium	ppm	<b>2</b>	0	1	1
Molybdenum	ppm	<b>7</b>	4	6	6
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	0	<1
Silver	ppm	<b>&lt;1</b>	0	0	0
Manganese	ppm	<b>2</b>	0	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>2383</b>	2486	2658	2661
Magnesium	ppm	<b>18</b>	19	18	24
Zinc	ppm	<b>1100</b>	1128	1144	1177
Phosphorus	ppm	<b>911</b>	937	970	968
Barium	ppm	<b>0</b>	0	2	0
Boron	ppm	<b>7</b>	4	8	6

**Depot:** VOLVO8885  
**Unique No:** 10883426  
**Signed:** Don Baldrige  
**Report Date:** 17 Feb 2024



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## GRAPHS

