



# CONSTRUCTION EQUIPMENT

ASCENDUM MACHINERY 500HR CSA/TRIANGLE GRADING 19006

VOLVO EC220E 1877 (S/N 310551) - SWING



**Sample No:** VCP407554  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:** 19006



**TRIANGLE GRADING AND PAVING INC**  
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## SAMPLE INFORMATION

Sample Number	<b>VCP407554</b>	VCP382655	VCP387533	VCP0000499
Sample Date	<b>03 Jul 2023</b>	20 Feb 2023	06 Sep 2022	08 Feb 2022
Machine Hours	<b>6473</b>	6088	5535	4978
Oil Hours	<b>0</b>	0	0	870
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Changed
Sample Status	<b>NORMAL</b>	MARGINAL	NORMAL	NORMAL

## OIL CONDITION

Visc @ 40°C	cSt	<b>341</b>	335	338	338
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## CONTAMINATION

Water	%	---	▲ 0.298	---	---
Silicon	ppm	<b>26</b>	9	7	6
Sodium	ppm	<b>2</b>	2	2	0
Potassium	ppm	<b>2</b>	0	0	<1

## WEAR METALS

Iron	ppm	<b>597</b>	543	447	356
Copper	ppm	<b>25</b>	21	14	6
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>&lt;1</b>	<1	0	0
Aluminum	ppm	<b>7</b>	<1	2	5
Chromium	ppm	<b>5</b>	6	4	4
Molybdenum	ppm	<b>&lt;1</b>	<1	<1	1
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>5</b>	5	4	3
Vanadium	ppm	<b>0</b>	0	0	0

## ADDITIVES

Calcium	ppm	<b>15</b>	15	22	103
Magnesium	ppm	<b>2</b>	<1	<1	<1
Zinc	ppm	<b>78</b>	49	75	88
Phosphorus	ppm	<b>1041</b>	869	895	1093
Barium	ppm	<b>0</b>	0	1	0
Boron	ppm	<b>68</b>	105	130	157

## 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.

**Depot:** TRIBUR  
**Unique No:** 10552880  
**Signed:** Sean Felton  
**Report Date:** 14 Jul 2023



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## VOLVO GRAPHS

