



# ASCENDUM

## OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Area  
**Ascendum Machinery/500 Hour CSA**  
Machine Id  
**VOLVO EC250E 2012 (S/N 310483)**  
Component  
**Rear Left Final Drive**  
Fluid  
**VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ASC0001536</b>	VCP414139	ASC0000399
Sample Date		Client Info		<b>04 Jan 2024</b>	19 Jul 2023	26 Apr 2023
Machine Age	hrs	Client Info		<b>6454</b>	3633	5502
Oil Age	hrs	Client Info		<b>500</b>	0	486
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Filter Changed		Client Info		<b>N/A</b>	Not Changd	N/A
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>348</b>	31	340
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	<1	2
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>10</b>	<1	17
Lead	ppm	ASTM D5185m	>25	<b>0</b>	▲ 134	0
Copper	ppm	ASTM D5185m	>50	<b>0</b>	10	<1
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

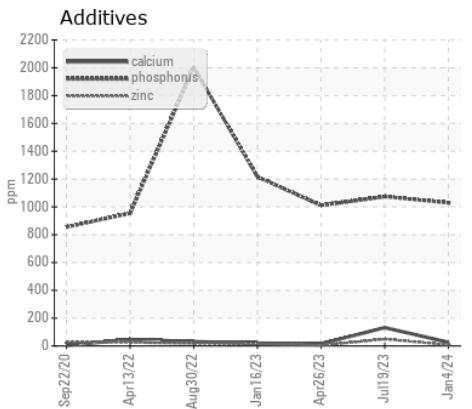
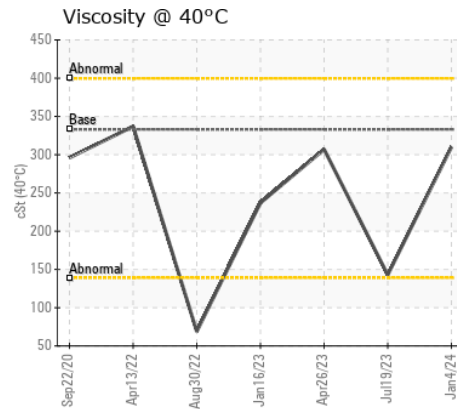
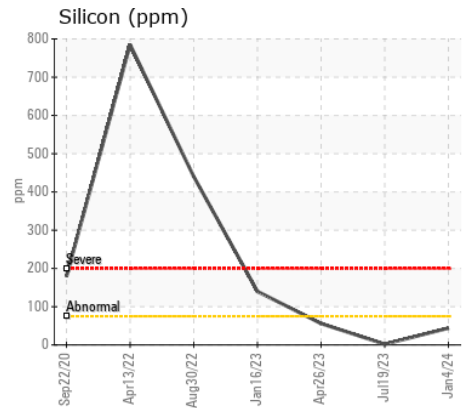
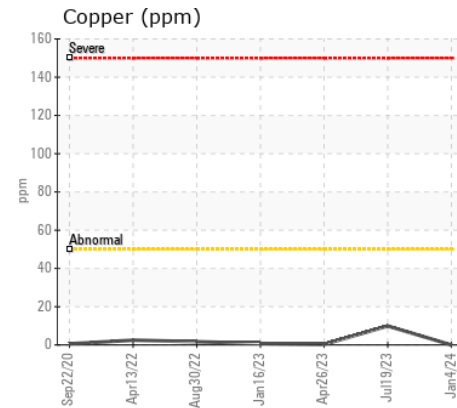
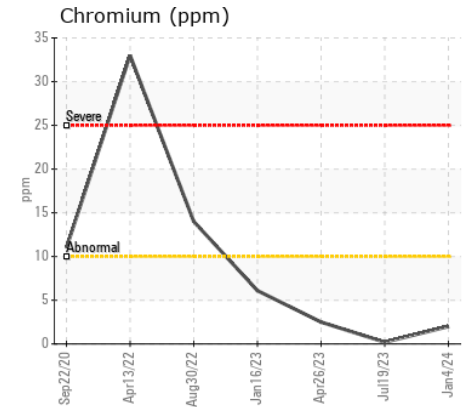
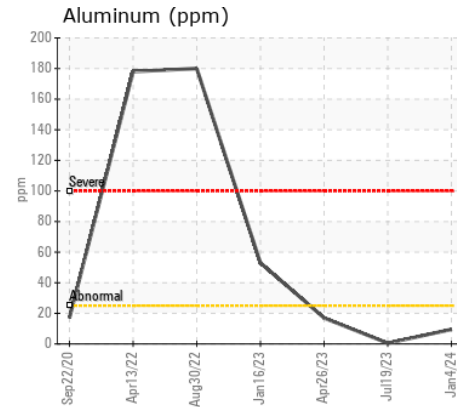
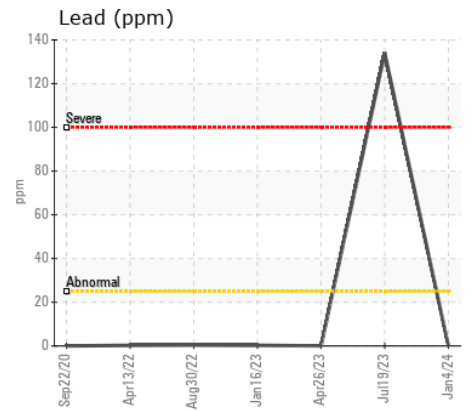
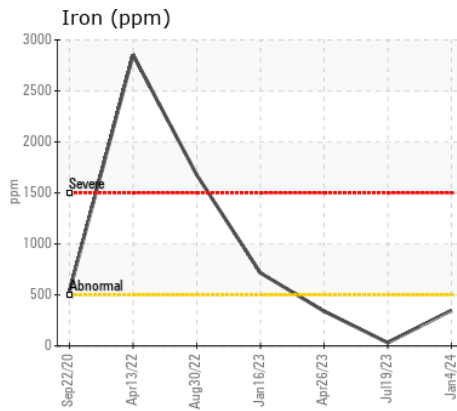
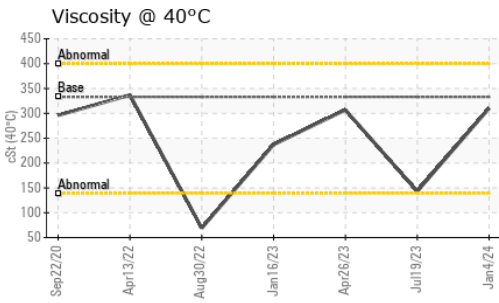
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>44</b>	2	56
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	<1
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>2</b>	2	1
Boron	ppm	ASTM D5185m	111	<b>175</b>	114	211
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0.9	<b>0</b>	7	<1
Manganese	ppm	ASTM D5185m	0.0	<b>2</b>	<1	3
Magnesium	ppm	ASTM D5185m	39	<b>5</b>	4	2
Calcium	ppm	ASTM D5185m	93	<b>26</b>	132	15
Phosphorus	ppm	ASTM D5185m	920	<b>1029</b>	1074	1011
Zinc	ppm	ASTM D5185m	104	<b>8</b>	49	4
Sulfur	ppm	ASTM D5185m	20179	<b>26729</b>	29060	32113
Visc @ 40°C	cSt	ASTM D445	333	<b>310</b>	143	307



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0001536 **Received** : 09 Jan 2024  
**Lab Number** : 06055641 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 10821590 **Diagnostician** : Sean Felton  
**Test Package** : MOBCE

**TRIANGLE GRADING AND PAVING INC**  
 1521 Huffman Mill Rd  
 BURLINGTON, NC  
 US 27216  
 Contact: ADAM CORBETT  
 wacorbett@trianglegradingpaving.com  
 T:  
 F: (336)584-0145

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)