



# ASCENDUM

## OIL ANALYSIS REPORT



Area

**Ascendum Machinery**

Machine Id

**VOLVO EC350E 310863**

Component

**Swing Drive**

Fluid

**VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)**

WEAR

**NORMAL**

CONTAMINATION

**NORMAL**

FLUID CONDITION

**NORMAL**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ASC0001737</b>	ASC0001334	VCP0005406
Sample Date		Client Info		<b>15 Jan 2024</b>	11 Sep 2023	15 Mar 2023
Machine Age	hrs	Client Info		<b>4726</b>	4195	3532
Oil Age	hrs	Client Info		<b>531</b>	4195	3532
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Changed	Not Changed
Filter Changed		Client Info		<b>None</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	<b>114</b>	302	328
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	4	5
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	0	3
Lead	ppm	ASTM D5185m	>50	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>50	<b>7</b>	15	24
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

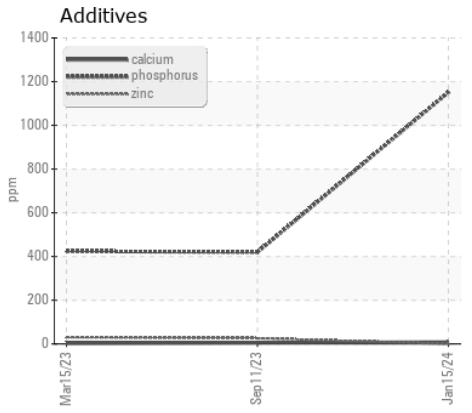
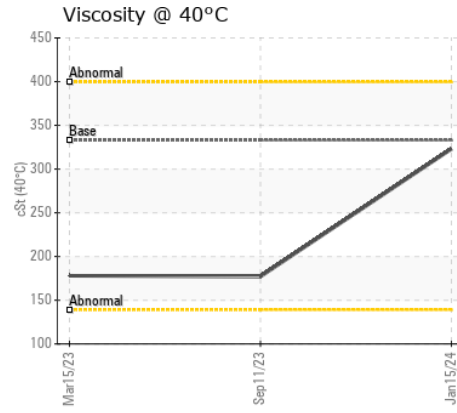
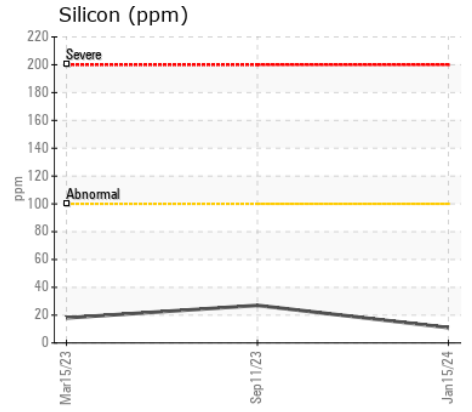
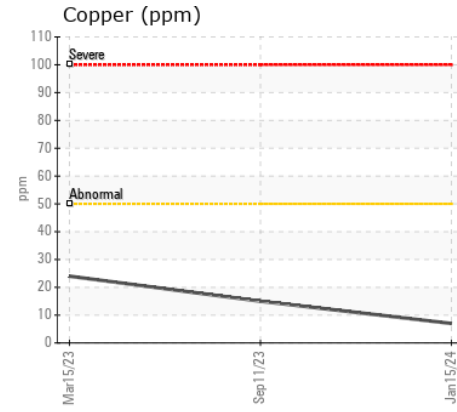
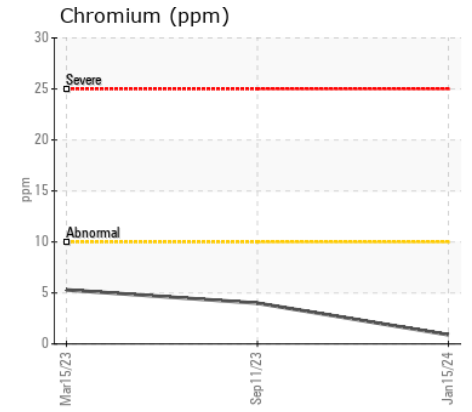
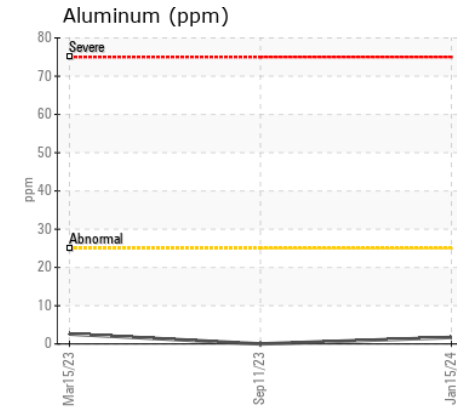
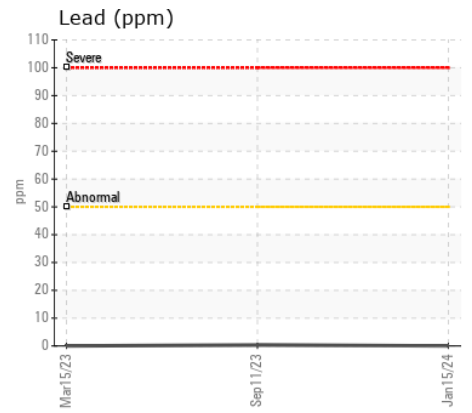
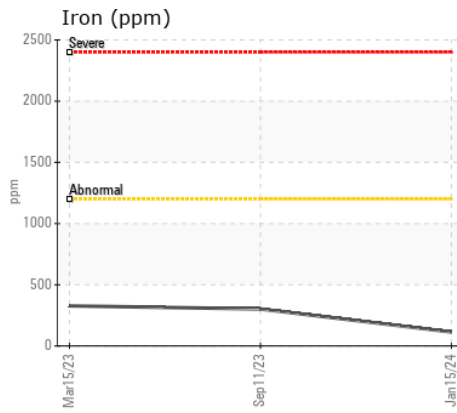
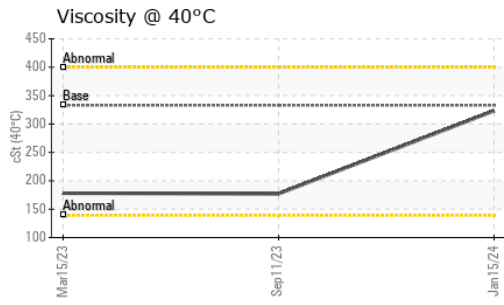
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>100	<b>11</b>	27	18
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	3	<1
Water		WC Method	>0.25	<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	>0.25	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>0</b>	3	1
Boron	ppm	ASTM D5185m	111	<b>207</b>	<1	0
Barium	ppm	ASTM D5185m	0.0	<b>3</b>	0	0
Molybdenum	ppm	ASTM D5185m	0.9	<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m	0.0	<b>&lt;1</b>	6	7
Magnesium	ppm	ASTM D5185m	39	<b>0</b>	2	4
Calcium	ppm	ASTM D5185m	93	<b>8</b>	6	3
Phosphorus	ppm	ASTM D5185m	920	<b>1151</b>	420	424
Zinc	ppm	ASTM D5185m	104	<b>0</b>	26	31
Sulfur	ppm	ASTM D5185m	20179	<b>35451</b>	16270	15265
Visc @ 40°C	cSt	ASTM D445	333	<b>323</b>	177	178



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0001737 **Received** : 17 Jan 2024  
**Lab Number** : 06063195 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10834577 **Diagnostician** : Don Baldrige  
**Test Package** : MOBCE

**CAROLINA PRECISION GRADING**  
 7427 MATTHEWS MINT HILL ROAD  
 CHARLOTTE, NC  
 US 28227  
 Contact: Service Manager

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)

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F: