



WEAR  
CONTAMINATION  
FLUID CONDITION

**ATTENTION**  
**ABNORMAL**  
**NORMAL**

Area

**Ascendum Machinery**

Machine Id

**VOLVO EC250E EX-10 (S/N 314019)**

Component

**Left Travel**

Fluid

**VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (1 GAL)**

### RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ASC0008359</b>	ASC0005208	ASC0001093
Sample Date		Client Info		<b>01 Jul 2024</b>	21 Nov 2023	15 Aug 2023
Machine Age	hrs	Client Info		<b>3493</b>	3000	2539
Oil Age	hrs	Client Info		<b>493</b>	461	488
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	<b>867</b>	82	229
Chromium	ppm	ASTM D5185m	>20	<b>12</b>	<1	4
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>3</b>	<1	1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>100	<b>54</b>	1	21
Lead	ppm	ASTM D5185m	>50	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>2</b>	3	<1
Tin	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

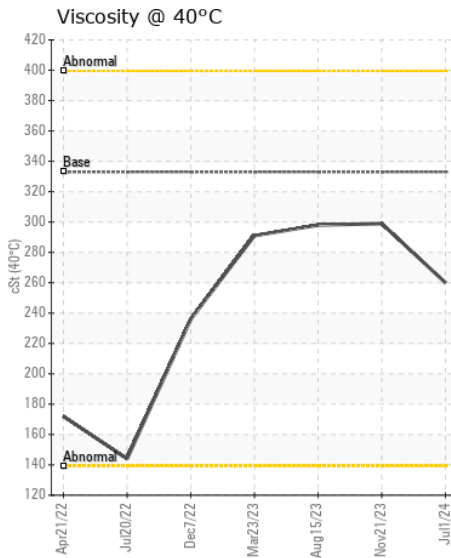
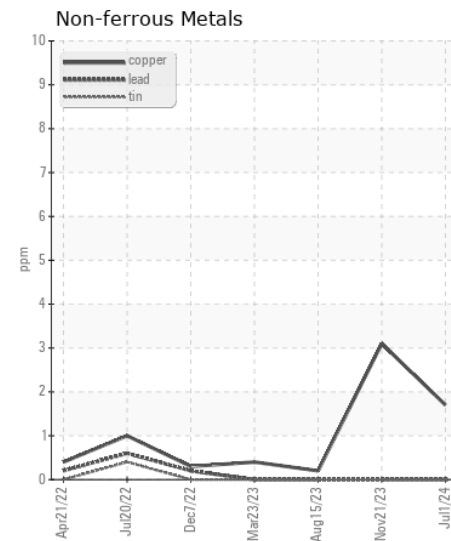
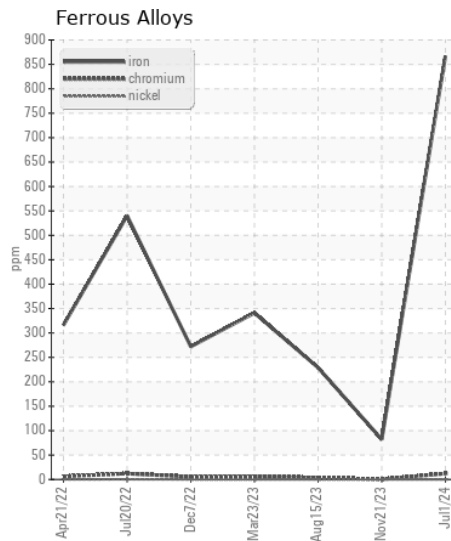
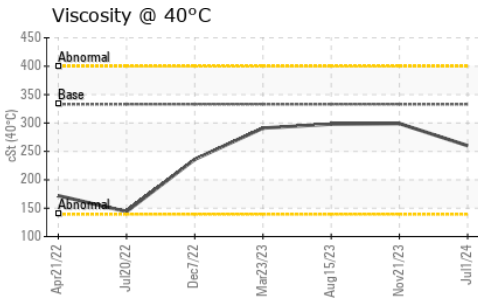
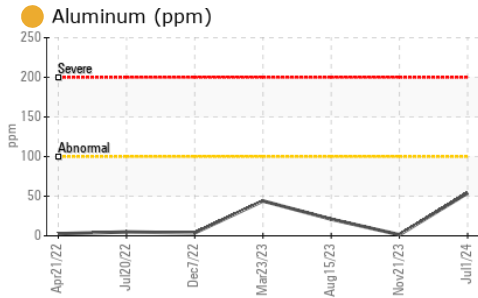
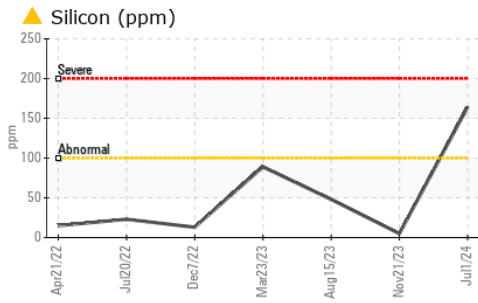
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>100	<b>▲ 164</b>	5	48
Potassium	ppm	ASTM D5185m	>20	<b>7</b>	1	<1
Water		WC Method	>0.25	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>MODER</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 oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>4</b>	0	2
Boron	ppm	ASTM D5185m	111	<b>181</b>	257	224
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0.9	<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m	0.0	<b>8</b>	<1	2
Magnesium	ppm	ASTM D5185m	39	<b>0</b>	3	5
Calcium	ppm	ASTM D5185m	93	<b>48</b>	67	587
Phosphorus	ppm	ASTM D5185m	920	<b>1017</b>	1041	920
Zinc	ppm	ASTM D5185m	104	<b>28</b>	17	183
Sulfur	ppm	ASTM D5185m	20179	<b>26648</b>	27718	23916
Visc @ 40°C	cSt	ASTM D445	333	<b>260</b>	299	298



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0008359  
**Lab Number** : 06240792  
**Unique Number** : 11129626  
**Test Package** : CONST

**Received** : 18 Jul 2024  
**Tested** : 19 Jul 2024  
**Diagnosed** : 22 Jul 2024 - Don Baldrige

**CAROLINA EXCAVATING**  
 1036 BRANCHVIEW DR, SUITE 106  
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 Contact: KEVIN LADGERWOOD  
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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: