



WEAR  
CONTAMINATION  
FLUID CONDITION

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

Area

### Ascendum Machinery

Machine Id

### VOLVO EC350E EX-08 (S/N 314211)

Component

### Left Travel

Fluid

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

#### RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0007042	ASC0000899	ASC0000407
Sample Date		Client Info		18 Jun 2024	15 Mar 2024	27 Apr 2023
Machine Age	hrs	Client Info		5062	5062	3501
Oil Age	hrs	Client Info		3501	1561	485
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		None	None	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL

#### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	656	408	211
Chromium	ppm	ASTM D5185m	>20	10	7	7
Nickel	ppm	ASTM D5185m	>5	1	0	<1
Titanium	ppm	ASTM D5185m		3	2	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>100	33	26	13
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>50	1	<1	<1
Tin	ppm	ASTM D5185m	>5	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

#### CONTAMINATION

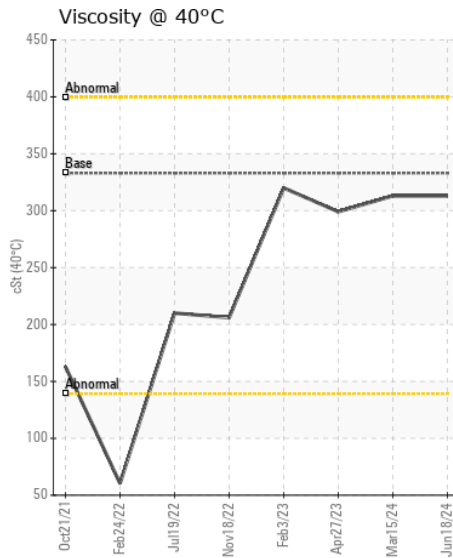
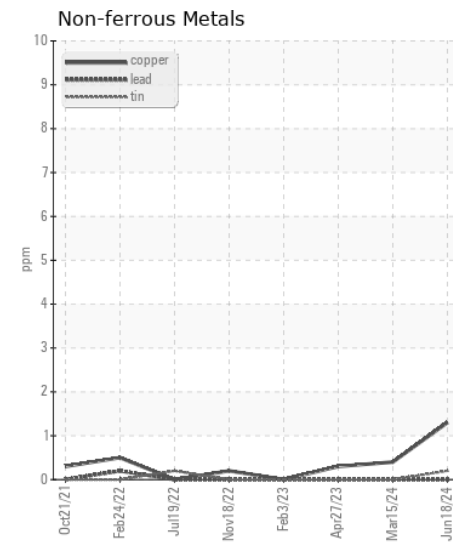
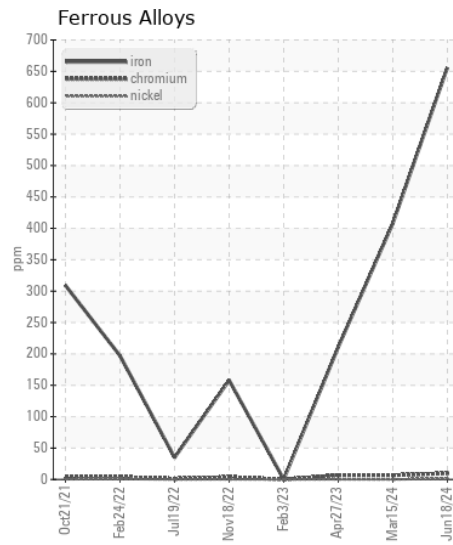
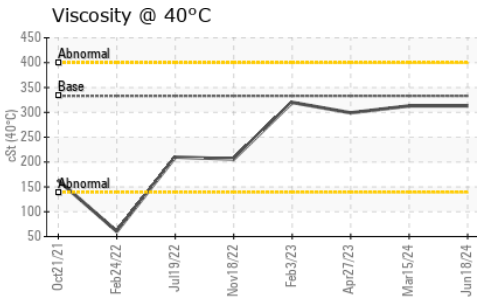
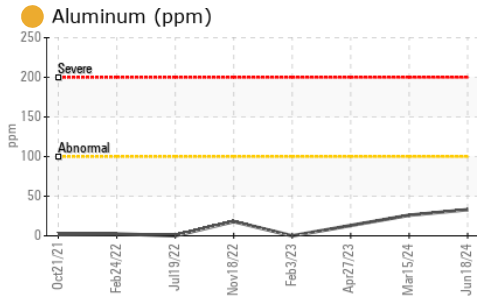
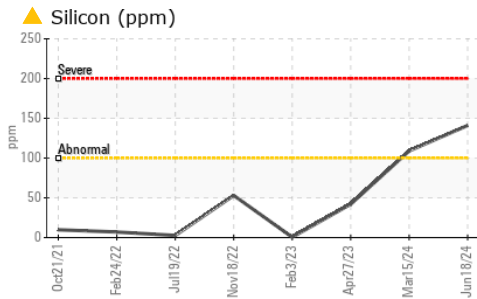
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>100	141	109	42
Potassium	ppm	ASTM D5185m	>20	7	3	2
Water		WC Method	>0.25	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.25	NEG	NEG	NEG

#### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		4	2	<1
Boron	ppm	ASTM D5185m	111	177	177	214
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.9	0	0	<1
Manganese	ppm	ASTM D5185m	0.0	6	3	2
Magnesium	ppm	ASTM D5185m	39	4	<1	1
Calcium	ppm	ASTM D5185m	93	80	18	10
Phosphorus	ppm	ASTM D5185m	920	1127	1106	1055
Zinc	ppm	ASTM D5185m	104	47	8	3
Sulfur	ppm	ASTM D5185m	20179	36619	35017	35981
Visc @ 40°C	cSt	ASTM D445	333	313	313	299



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0007042  
**Lab Number** : 06217163  
**Unique Number** : 11090027  
**Test Package** : CONST

**Received** : 21 Jun 2024  
**Tested** : 24 Jun 2024  
**Diagnosed** : 24 Jun 2024 - Sean Felton

**CAROLINA EXCAVATING**  
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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: