

# Ascendum Machinery VOLVO EC250E EX-10 (S/N 314019)

**Right Travel** 

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

### RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

#### WEAR

Gear wear is indicated.

### CONTAMINATION

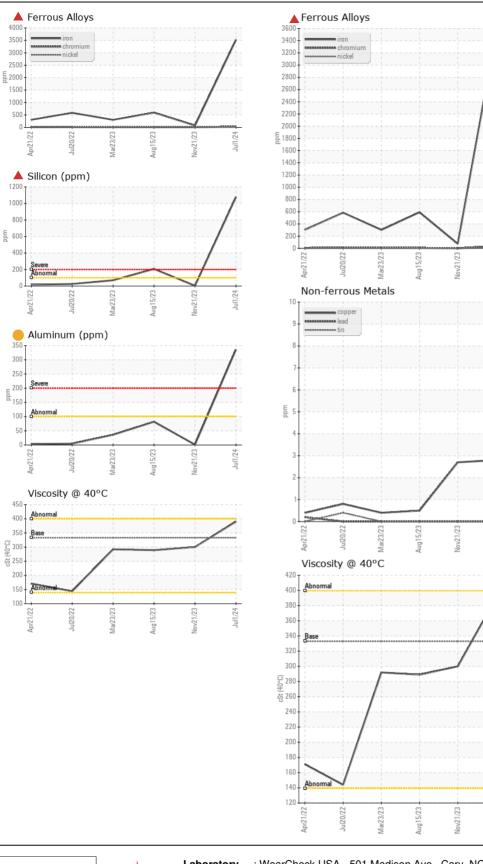
Elemental levels of silicon (Si) and aluminum (AI) indicate aluminasilicate (coarse dirt) ingress.

## FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0008355	ASC0005089	ASC0001092
Sample Date		Client Info		01 Jul 2024	21 Nov 2023	15 Aug 2023
Machine Age	hrs	Client Info		3493	3000	2539
Oil Age	hrs	Client Info		493	461	488
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		None	N/A	None
Sample Status				SEVERE	NORMAL	ABNORMAL
			4000		74	E04
Iron	ppm	ASTM D5185m	>1200	▲ 3518 ▲ 35	74	591
Chromium	ppm	ASTM D5185m	>20	▲ 38	<1	8
Nickel	ppm	ASTM D5185m	>5	4	0	<1
Titanium	ppm	ASTM D5185m		24	<1	5
Silver	ppm	ASTM D5185m	100	0	<1	<1
Aluminum	ppm	ASTM D5185m	>100	<b>3</b> 36	1	82
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>50	3	3	<1
Tin	ppm	ASTM D5185m	>5	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>100	<b>1077</b>	3	<b>2</b> 07
Potassium	0.0.00					
	ppm	ASTM D5185m	>20	50	1	9
Water	ррш	WC Method	>20 >0.25	50 NEG	1 NEG	9 NEG
Water Silt	scalar					
		WC Method	>0.25	NEG	NEG	NEG
Silt	scalar	WC Method *Visual	>0.25 NONE	NEG NONE	NEG NONE	NEG
Silt Debris	scalar scalar	WC Method *Visual *Visual	>0.25 NONE NONE	NEG NONE NONE	NEG NONE NONE	NEG NONE NONE
Silt Debris Sand/Dirt	scalar scalar scalar	WC Method *Visual *Visual *Visual	>0.25 NONE NONE NONE	NEG NONE NONE NONE	NEG NONE NONE NONE	NEG NONE NONE NORML
Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar	WC Method *Visual *Visual *Visual *Visual	>0.25 NONE NONE NONE NORML	NEG NONE NONE NONE NORML	NEG NONE NONE NORML	NEG NONE NONE NORML
Silt Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar scalar scalar	WC Method *Visual *Visual *Visual *Visual	>0.25 NONE NONE NORML NORML	NEG NONE NONE NORML NORML	NEG NONE NONE NORML NORML	NEG NONE NONE NORML NORML
Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar	WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>0.25 NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG	NEG NONE NONE NORML NORML NEG	NEG NONE NONE NORML NORML NEG
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar scalar scalar ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>0.25 NONE NONE NORML NORML >0.25	NEG NONE NONE NORML NORML NEG	NEG NONE NONE NORML NORML NEG	NEG NONE NONE NORML NORML NEG
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar scalar scalar ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>0.25 NONE NONE NORML >0.25	NEG NONE NONE NORML NORML NEG 12 180	NEG NONE NONE NORML NORML NEG 0 252	NEG NONE NONE NORML NORML NEG 3 195
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar scalar scalar ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>0.25 NONE NONE NORML NORML >0.25	NEG NONE NONE NORML NORML NEG 12 180	NEG NONE NONE NORML NORML NEG 0 252 0	NEG NONE NONE NORML NORML NEG 3 195 0
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar scalar scalar scalar scalar ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>0.25 NONE NONE NORML NORML >0.25 1111 0.0 0.9	NEG NONE NONE NORML NORML NEG 12 180 1 4	NEG NONE NONE NORML NORML NEG 0 252 0 0	NEG NONE NONE NORML NORML NEG 3 195 0 0
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>0.25 NONE NONE NORML >0.25 1111 0.0 0.9 0.0	NEG NONE NONE NORML NORML NEG 12 180 1 4 33	NEG NONE NONE NORML NORML NEG 0 252 0 0 252	NEG NONE NONE NORML NORML NEG 3 195 0 0 0 6
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;0.25</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>&gt;0.25</li> <li>1111</li> <li>0.0</li> <li>0.9</li> <li>0.0</li> <li>39</li> </ul>	NEG NONE NONE NORML NORML NEG 12 180 1 180 1 4 33 13	NEG NONE NONE NORML NORML NEG 0 252 0 0 252 0 0 252	NEG NONE NONE NORML NORML NEG 3 195 0 0 0 6 9
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;0.25</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>&gt;0.25</li> </ul>	NEG NONE NONE NORML NORML 12 180 1 180 1 4 33 13 25	NEG NONE NONE NORML NORML NEG 0 252 0 252 0 0 252 0 1 4 73	NEG NONE NONE NORML NORML NEG 3 195 0 0 6 9 934
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;0.25</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>&gt;0.25</li> <li>1111</li> <li>0.0</li> <li>0.9</li> <li>0.0</li> <li>39</li> <li>93</li> <li>920</li> </ul>	NEG NONE NONE NORML NORML NEG 12 180 1 4 33 13 25 968	NEG NONE NONE NORML NORML NEG 0 252 0 0 252 0 0 252 0 1 4 73 1019	NEG NONE NONE NORML NORML NEG 3 195 0 0 0 6 9 934 898
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium Phosphorus Zinc	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;0.25</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>&gt;0.25</li> <li>1111</li> <li>0.0</li> <li>0.9</li> <li>0.0</li> <li>39</li> <li>920</li> <li>104</li> </ul>	NEG NONE NONE NORML NORML 12 180 1 1 4 33 13 25 968 0	NEG NONE NONE NORML NORML NEG 0 252 0 0 252 0 0 252 0 0 252 0 1 0 252 0 1 0 252 0 1 0 252 0 1 0 1 0 2 1 1 0 2 1 1 0 2 1 2 1 2 1	NEG NONE NONE NORML NORML NEG 3 195 0 0 0 6 9 934 898 290

Submitted By: KARRINGTON RENDLEMAN



**CAROLINA EXCAVATING** Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received 1036 BRANCHVIEW DR, SUITE 106 Sample No. : ASC0008355 : 18 Jul 2024 Lab Number : 06240791 CONCORD, NC Tested : 19 Jul 2024 : 22 Jul 2024 - Don Baldridge US 28025 Unique Number : 11129625 Diagnosed Test Package : CONST Contact: KEVIN LADGERWOOD Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. kevin@carlinaexcavation.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

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