



#### Ascendum Machinery Machine Id VOLVO EC350E 310863

Right Travel

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

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. 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

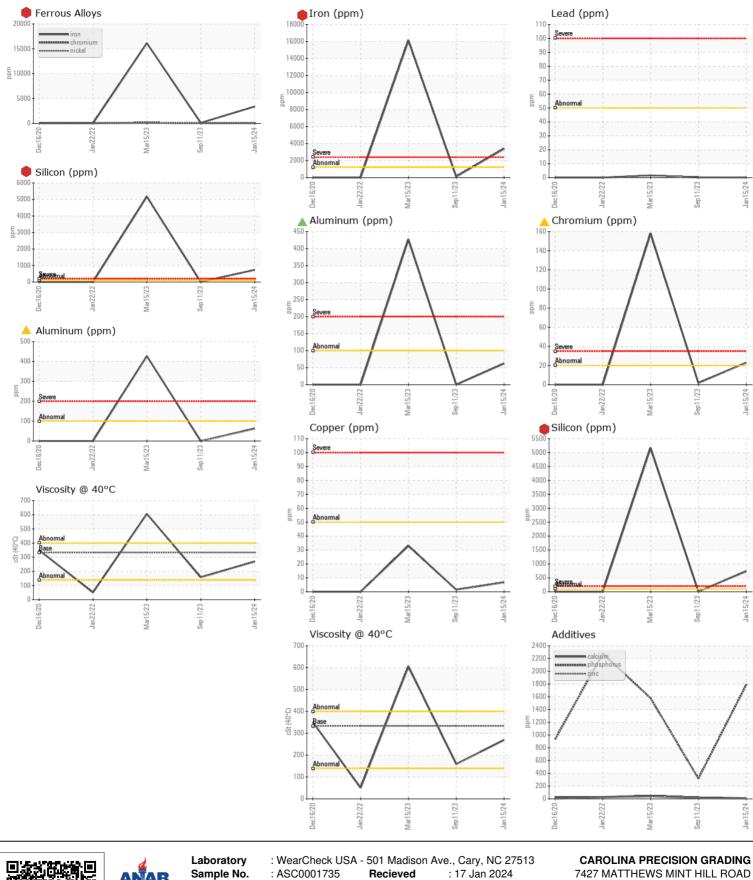
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.

# FLUID CONDITION

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

Sample DateClient IntoIs Jan 202411 Sep 202515 Mar 2023Machine AgehrsClient Into4726419535323532Oil AgehrsClient Into53166335323532Filter AgehrsClient IntoImageChangedChangedChangedFilter ChangedClient IntoImageNoreN/ANACSample StatusClient IntoImageSEVERENORMALSEVEREIronpmASTM D5185>1200338010516124ChromiumpmASTM D5185>20338010516124ChromiumpmASTM D5185>20338010516124ChromiumpmASTM D5185>20338010516124ChromiumpmASTM D5185>2033800427NickelpmASTM D5185>500421LeadpmASTM D5185>500<12CopperpmASTM D5185>500<10VanadiumpmASTM D5185>500<10VanadiumpmASTM D5185>500<10VanadiumpmASTM D5185>500<10VanadiumpmASTM D5185>500<10VanadiumpmASTM D5185>10NONENONENONESiliconpmASTM D5185 <td< th=""><th>Test</th><th>UOM</th><th>Method</th><th>Limit/Abn</th><th>CL</th><th>irrent</th><th>History1</th><th>History2</th></td<>	Test	UOM	Method	Limit/Abn	CL	irrent	History1	History2
Machine AgehrsClient IntoImageImageS32Oil AgehrsClient IntoS316633532Filter AgehrsClient IntoNot ChangedChangedChangedOil ChangedClient IntoNoneN/AN/ASample StatusClient IntoSEVERENORMALSEVEREIronppmASTM 518sm51200338010516124ChromiumppmASTM 518sm520A 232158NickelppmASTM 518sm552021TitaniumppmASTM 518sm503604192JairenppmASTM 518sm500<12CopperppmASTM 518sm500<10VanadumppmASTM 518sm500<10VanadumppmASTM 518sm500<10VanadumppmASTM 518sm500<10VanadumppmASTM 518sm500<10VanadumppmASTM 518sm500<10VanadumppmASTM 518sm500<10VanadumppmASTM 518sm500<10VanadumppmASTM 518sm500<10VanadumppmASTM 518sm500<10SiliconppmASTM 518sm50 <t< th=""><th>Sample Number</th><th></th><th>Client Info</th><th></th><th>AS</th><th>C0001735</th><th></th><th>VCP0005408</th></t<>	Sample Number		Client Info		AS	C0001735		VCP0005408
Machine AgeIrrsClient InfoIntFrageS32Oil AgehrsClient Info5316633532Filter AgehrsClient InfoNot ChangedChangedChangedOil ChangedClient InfoNot ChangedChangedChangedFilter ChangedIntClient InfoNoneN/AN/ASample StatusStatusStatusStatusStatusStatusStatusIronppmASTM D518mS120StatusIntoIntoIntoNickelppmASTM D518mS502016124ChromiumppmASTM D518mS5020121TitaniumppmASTM D518mS50002SilverppmASTM D518mS10G122333CopperppmASTM D518mS5001233TinppmASTM D518mS5001233Yellow MetalscalarYisualNONENONENONENONEVellow MetalscalarYisualNONENONENONENONENONESiliconppmASTM D518mS10G3340Vellow MetalscalarYisualNONENONENONENONESiliconppmASTM D518mS10GNONENONENONESiliconscalarYisualNONENONENONENONESi	Sample Date		Client Info		15	Jan 2024	11 Sep 2023	15 Mar 2023
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Chromium     ppm     ASTM D5185m     >20     ▲ 23     2     158       Nickel     ppm     ASTM D5185m     >5     2     0     21       Titanium     ppm     ASTM D5185m     S     2     0     0       Aluminum     ppm     ASTM D5185m     >100     ▲ 62     0     4 427       Lead     ppm     ASTM D5185m     >50     7     2     33       Copper     ppm     ASTM D5185m     >50     7     2     33       Tin     ppm     ASTM D5185m     >50     7     2     33       Vanadium     ppm     ASTM D5185m     >100     0     0     2       Vallow     NONE     NONE     NONE     NONE     NO	-				SE	VERE	NORMAL	SEVERE
Chromium     ppm     ASTM D5185m     >20     ▲ 23     2     158       Nickel     ppm     ASTM D5185m     >5     2     0     21       Titanium     ppm     ASTM D5185m     S     2     0     0       Aluminum     ppm     ASTM D5185m     >100     ▲ 62     0     4 427       Lead     ppm     ASTM D5185m     >50     7     2     33       Copper     ppm     ASTM D5185m     >50     7     2     33       Tin     ppm     ASTM D5185m     >50     7     2     33       Vanadium     ppm     ASTM D5185m     >100     0     0     2       Vallow     NONE     NONE     NONE     NONE     NO	Iron		ACTM DE105m	. 1200		2200	105	<b>•</b> 16104
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Titanium     ppm     ASTM D5185m     8     0     57       Silver     ppm     ASTM D5185m     0     0     0       Aluminum     ppm     ASTM D5185m     >100     622     0     427       Lead     ppm     ASTM D5185m     >50     0     <1     2     33       Copper     ppm     ASTM D5185m     >50     7     2     33     33       Tin     ppm     ASTM D5185m     >50     7     2     33     10       Vanadium     ppm     ASTM D5185m     >50     0     <10     2     10       Vanadium     ppm     ASTM D5185m     >50     0     0     2     10       Visual     NONE     NONE     NONE     NONE     NONE     NONE     10       Silicon     ppm     ASTM D5185m<>100     738     5     5170     2       Silicon     ppm     ASTM D5185m     >100     738     5     5170       Potassenium						-		
Silver     ppm     ASTM D5185m     0     0     0       Aluminum     ppm     ASTM D5185m     >100     A 62     0     4 427       Lead     ppm     ASTM D5185m     >50     0     <1     2       Copper     ppm     ASTM D5185m     >50     7     2     33       Tin     ppm     ASTM D5185m     >50     7     2     33       Vanadium     ppm     ASTM D5185m     >50     0     <1     0       Vanadium     ppm     ASTM D5185m     >50     0     <10     2       White Metal     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Silicon     ppm     ASTM D5185m     >100     7     3     40       Water     WC Method     >0.25     NEG     NEG     NEG       Silit     scalar     *Visual     NONE     NONE     NONE     NONE       Appearance     scalar     *Visual     NOR     NORM     <				>0			-	•
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Lead     ppm     ASTM D5185m     >50     0     <1				. 100		-	-	
Copper     ppm     ASTM D5185m     >50     7     2     33       Tin     ppm     ASTM D5185m     >5     0     <1     0       Vanadium     ppm     ASTM D5185m     >5     0     0     2       White Metal     scalar     *Visual     NONE     NONE     NONE     LIGHT       Yellow Metal     scalar     *Visual     NONE     NONE     NONE     NONE       Silicon     ppm     ASTM D5185m     >100 <b>7</b> 38     5     5170       Potassium     ppm     ASTM D5185m     >20 <b>7</b> 33     40       Water     WC Method     >0.25     NEG     NEG     NORE       Debris     scalar     *Visual     NONE     NONE     NONE     NORE       Appearance     scalar     *Visual     NORM     NORML     NORML     NORML     NORML       Odor     scalar     *Visual     NORML     NORML     NORML     NORML     NORML       Godium     ppm     AST						-		
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Silicon     ppm     ASTM D5185m     >100     738     5     5170       Potassium     ppm     ASTM D5185m     >20     7     3     40       Water     WC Method     >0.25     NEG     NEG     NEG       Silt     scalar     *Visual     NONE     NONE     NONE     NONE       Debris     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Sand/Dirt     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Appearance     scalar     *Visual     NORML     NORML     NORML     NORML     NORML       Odor     scalar     *Visual     NORML     NORML     NORML     NORML     NORML       Sodium     ppm     ASTM D5185m     0.0     4     4     0     202       Barium     ppm     ASTM D5185m     0.0     2     0     0       Manganese     ppm     ASTM D5185m     0.0     22     17     2 </th <th></th> <th></th> <th></th> <th></th> <th></th> <th>-</th> <th>-</th> <th></th>						-	-	
Potassium     ppm     ASTM D5185m     >20     7     3     40       Water     WC Method     >0.25     NEG     NEG     NEG     NEG       Silt     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Debris     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Sand/Dirt     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Appearance     scalar     *Visual     NORML     Stale     Stale <td< th=""><th>Yellow Metal</th><th>scalar</th><th>*Visual</th><th>NONE</th><th></th><th>NONE</th><th>NONE</th><th>NONE</th></td<>	Yellow Metal	scalar	*Visual	NONE		NONE	NONE	NONE
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Emulsified Waterscalar*Visual>0.25NEGNEGNEGSodiumppmASTM D5185m044BoronppmASTM D5185m1112340202BariumppmASTM D5185m0.0200MolybdenumppmASTM D5185m0.02324ManganeseppmASTM D5185m0.0223109MagnesiumppmASTM D5185m93112250PhosphorusppmASTM D5185m92017843191579ZincppmASTM D5185m1040833SulfurppmASTM D5185m20179516191725575285	Appearance	scalar	*Visual	NORML		NORML	NORML	NORML
Sodium     ppm     ASTM D5185m     0     4     4       Boron     ppm     ASTM D5185m     111     234     0     202       Barium     ppm     ASTM D5185m     0.0     2     0     0       Molybdenum     ppm     ASTM D5185m     0.0     2     0     0       Manganese     ppm     ASTM D5185m     0.0     22     3     109       Magnesium     ppm     ASTM D5185m     0.0     22     3     109       Calcium     ppm     ASTM D5185m     93     2     2     17       Calcium     ppm     ASTM D5185m     93     11     22     50       Phosphorus     ppm     ASTM D5185m     93     11     22     50       Zinc     ppm     ASTM D5185m     920     1784     319     1579       Zinc     ppm     ASTM D5185m     104     0     8     33       Sulfur     ppm     ASTM D5185m     20179     51619     17255 <th>Odor</th> <th>scalar</th> <th>*Visual</th> <th>NORML</th> <th></th> <th>NORML</th> <th>NORML</th> <th>NORML</th>	Odor	scalar	*Visual	NORML		NORML	NORML	NORML
Boron     ppm     ASTM D5185m     111     234     0     202       Barium     ppm     ASTM D5185m     0.0     2     0     0       Molybdenum     ppm     ASTM D5185m     0.0     2     0     0       Manganese     ppm     ASTM D5185m     0.0     22     3     109       Magnesium     ppm     ASTM D5185m     0.0     22     3     109       Magnesium     ppm     ASTM D5185m     0.0     22     3     109       Magnesium     ppm     ASTM D5185m     39     2     2     17       Calcium     ppm     ASTM D5185m     93     11     22     50       Phosphorus     ppm     ASTM D5185m     920     1784     319     1579       Zinc     ppm     ASTM D5185m     104     0     8     33       Sulfur     ppm     ASTM D5185m     20179     51619     17255     75285	Emulsified Water	scalar	*Visual	>0.25		NEG	NEG	NEG
Boron     ppm     ASTM D5185m     111     234     0     202       Barium     ppm     ASTM D5185m     0.0     2     0     0       Molybdenum     ppm     ASTM D5185m     0.0     2     0     0       Manganese     ppm     ASTM D5185m     0.0     22     3     109       Magnesium     ppm     ASTM D5185m     0.0     22     3     109       Calcium     ppm     ASTM D5185m     93     2     2     17       Calcium     ppm     ASTM D5185m     93     11     22     50       Phosphorus     ppm     ASTM D5185m     93     11     22     50       Zinc     ppm     ASTM D5185m     920     1784     319     1579       Zinc     ppm     ASTM D5185m     104     0     8     33       Sulfur     ppm     ASTM D5185m     20179     51619     17255     75285	Sodium	ppm	ASTM D5185m			0	4	4
Barium     ppm     ASTM D5185m     0.0     2     0     0       Molybdenum     ppm     ASTM D5185m     0.9     3     <1	Boron		ASTM D5185m	111		234	0	202
Molybdenum     ppm     ASTM D5185m     0.9     3     <1	Barium		ASTM D5185m	0.0		2	0	0
Manganese     ppm     ASTM D5185m     0.0     22     3     109       Magnesium     ppm     ASTM D5185m     39     2     2     17       Calcium     ppm     ASTM D5185m     93     11     22     50       Phosphorus     ppm     ASTM D5185m     920     1784     319     1579       Zinc     ppm     ASTM D5185m     104     0     8     33       Sulfur     ppm     ASTM D5185m     20179     51619     17255     75285	Molybdenum		ASTM D5185m	0.9		3	<1	24
Magnesium     ppm     ASTM D5185m     39     2     2     17       Calcium     ppm     ASTM D5185m     93     11     22     50       Phosphorus     ppm     ASTM D5185m     920     1784     319     1579       Zinc     ppm     ASTM D5185m     104     0     8     33       Sulfur     ppm     ASTM D5185m     20179     51619     17255     75285	Manganese		ASTM D5185m	0.0		22	3	109
Calcium     ppm     ASTM D5185m     93     11     22     50       Phosphorus     ppm     ASTM D5185m     920     1784     319     1579       Zinc     ppm     ASTM D5185m     104     0     8     33       Sulfur     ppm     ASTM D5185m     20179     51619     17255     75285			ASTM D5185m	39		2	2	17
Phosphorus     ppm     ASTM D5185m     920     1784     319     1579       Zinc     ppm     ASTM D5185m     104     0     8     33       Sulfur     ppm     ASTM D5185m     20179     51619     17255     75285	-		ASTM D5185m	93		11		50
Zinc     ppm     ASTM D5185m     104     0     8     33       Sulfur     ppm     ASTM D5185m     20179     51619     17255     75285								
Sulfur     ppm     ASTM D5185m     20179     51619     17255     75285								
	Visc @ 40°C	cSt	ASTM D445	333		269	159	▲ 606

Submitted By: KARRINGTON RENDLEMAN



7427 MATTHEWS MINT HILL ROAD CHARLOTTE, NC US 28227

Contact: Service Manager

: 10834576 : MOBCE To discuss this sample report, contact Customer Service at 1-800-237-1369.

: 06063194

: ASC0001735

\* - 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)

Recieved

Diagnosed

Diagnostician

: 19 Jan 2024

: Don Baldridge

Certificate L2367

Lab Number

**Unique Number** 

Test Package

Submitted By: KARRINGTON RENDLEMAN

T:

F: