# ASCENDUM PROBLEM SUMMARY

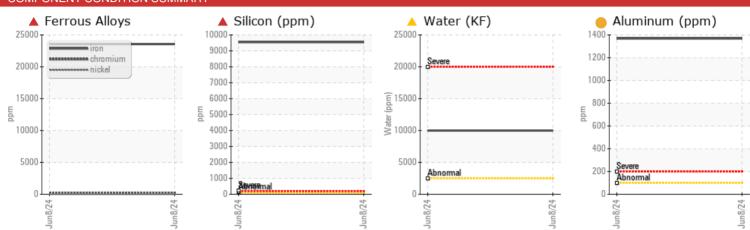
WEAR

### Area Ascendum Machinery/500 Hour CSA VOLVO EC220E 310445

Left Travel

{not provided} (--- GAL)

#### COMPONENT CONDITION SUMMARY



#### RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Please note that the oil was too thick to perform some of the normal laboratory tests.

#### PROBLEMATIC TEST RESULTS

Sample Status				SEVERE				
Iron	ppm	ASTM D5185m	>1200	<b>4</b> 23568				
Chromium	ppm	ASTM D5185m	>20	<b>A</b> 226				
Nickel	ppm	ASTM D5185m	>5	<b>a</b> 26				
Silicon	ppm	ASTM D5185m	>100	<b>4</b> 9550				
Water	%	ASTM D6304	>0.25	<u> </u>				
ppm Water	ppm	ASTM D6304	>2500	<u> </u>				

Customer Id: TRIBUR Sample No.: ASC0009536 Lab Number: 06210543 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.		
Resample			?	We recommend an early resample to monitor this condition.		
Alert			?	Please note that the oil was too thick to perform some of the normal laboratory tests.		
Check Dirt Access			?	We advise that you check all areas where dirt can enter the system.		
Check Water Access			?	We advise that you check for the source of water entry.		

HISTORICAL DIAGNOSIS

## ASCENDUM OIL ANALYSIS REPORT

### Area Ascendum Machinery/500 Hour CSA VOLVO EC220E 310445

Left Travel Fluid {not provided} (--- GAL)

#### DIAGNOSIS

#### Recommendation

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Please note that the oil was too thick to perform some of the normal laboratory tests.

#### A Wear

Gear wear is indicated.

#### Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a high concentration of water present in the oil.

#### Fluid Condition

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

Sample Date      Client Info      08 Jun 2024          Machine Age      days      Client Info      5552          Oil Age      days      Client Info      5552          Oil Changed      Client Info      Changed          Sample Status      Imit/base      current      history1      History2        Iron      ppm      ASTM 05156m      >1200      23568          Nickel      ppm      ASTM 05156m      >120      226          Nickel      ppm      ASTM 05156m      0           Lead      ppm      ASTM 05156m      >50      45          Vanadium      ppm      ASTM 05156m      50      4          Vanadium      ppm      ASTM 05156m      27          Actimum      ppm      ASTM 05156m      232          Mandimum      ppm	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Machine Age      days      Client Info      5552          Oil Age      days      Client Info      Changed          Sample Status      Image      Client Info      SEVERE          WEAR METALS      method      Imit/base      current      history1      history2        Iron      ppm      ASTM 05185m      >20      23658          Nickel      ppm      ASTM 05185m      >20      226          Titanium      ppm      ASTM 05185m      >50      3          Aluminum      ppm      ASTM 05185m      >50      3          Lead      ppm      ASTM 05185m      >50      3          Adminum      ppm      ASTM 05185m      50      0          Copper      ppm      ASTM 05185m      57      0          Addmium      ppm      ASTM 05185m      52      0	Sample Number		Client Info		ASC0009536		
Oil Age      days      Client Info      5552          Sample Status      Client Info      Changed          WEAR METALS      method      limit/base      current      history1      history2        Iron      ppm      ASTM D5185m      >1200      23568          Nickel      ppm      ASTM D5185m      >50      266          Nickel      ppm      ASTM D5185m      >50      3          Aluminum      ppm      ASTM D5185m      >50      3          Aluminum      ppm      ASTM D5185m      >50      3          Aluminum      ppm      ASTM D5185m      >50      3          Agen      ppm      ASTM D5185m      >50      4          Agen      ppm      ASTM D5185m      5      0          Agen      ppm      ASTM D5185m      1 <t< td=""><td>Sample Date</td><td></td><td>Client Info</td><td></td><td>08 Jun 2024</td><td></td><td></td></t<>	Sample Date		Client Info		08 Jun 2024		
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Iron      ppm      ASTM D5185m      >1200      ▲ 23568          Chromium      ppm      ASTM D5185m      >20      ▲ 226          Nickel      ppm      ASTM D5185m      >5      ▲ 26          Silver      ppm      ASTM D5185m      0           Aluminum      ppm      ASTM D5185m      >50      3          Aluminum      ppm      ASTM D5185m      >50      3          Copper      ppm      ASTM D5185m      >50      4          Cadmium      ppm      ASTM D5185m      50      0          ADDITIVES      method      limit/base      current      history1      history2        Barium      ppm      ASTM D5185m      27          Magnesium      ppm      ASTM D5185m      222          Magnesium      ppm      ASTM D5185m      32	Sample Status				-		
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Water%ASTM D6304>0.251.00ppm WaterppmASTM D6304>250010000VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNORMLNORMLAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.250.2%	Sodium		ASTM D5185m		139		
Water%ASTM D6304>0.25▲ 1.00ppm WaterppmASTM D6304>2500▲ 10000VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNORMLNORMLAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.250.2%	Potassium		ASTM D5185m	>20	313		
VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.250.2%	Water		ASTM D6304	>0.25	<u> </u>		
White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.250.2%	ppm Water	ppm	ASTM D6304	>2500	<b>10000</b>		
Yellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.250.2%	VISUAL		method	limit/base	current	history1	history2
Precipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.250.2%	White Metal	scalar	*Visual	NONE	NONE		
Siltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.250.2%	Yellow Metal	scalar	*Visual	NONE	NONE		
Debrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.250.2%	Precipitate	scalar	*Visual	NONE	NONE		
Sand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.250.2%	Silt	scalar	*Visual	NONE	NONE		
Appearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.250.2%	Debris	scalar	*Visual	NONE	NONE		
Odor  scalar  *Visual  NORML  NORML      Emulsified Water  scalar  *Visual  >0.25  0.2%	Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.25 0.2%	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.25			
	Free Water	scalar	*Visual		NEG		

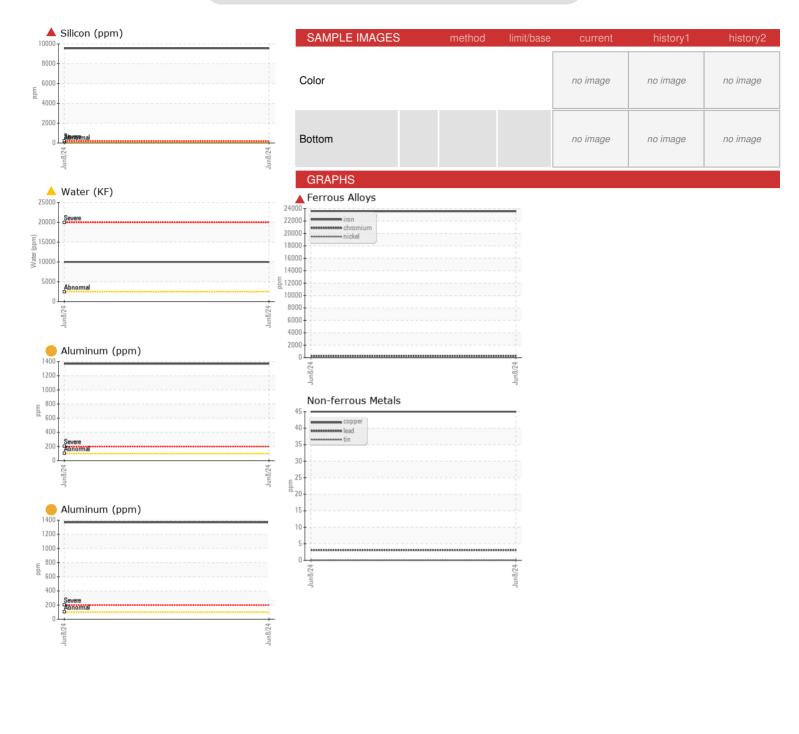
Sample Rating Trend

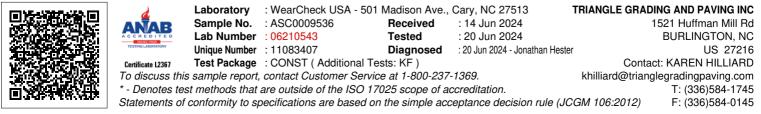


WEAR

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## **OIL ANALYSIS REPORT**





Report Id: TRIBUR [WUSCAR] 06210543 (Generated: 06/26/2024 14:17:06) Rev: 1

Submitted By: KARRINGTON RENDLEMAN