## ASCENDUM

## **PROBLEM SUMMARY**

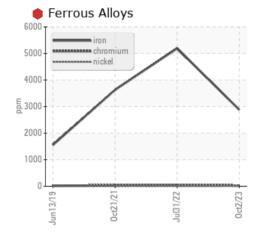
# Sample Rating Trend WEAR

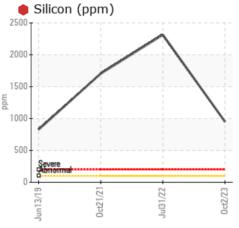


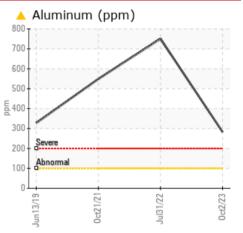
#### Ascendum Machinery/500 Hour CSA Machine Id VOLVO EC300E 1741 (S/N 311070) Component Right Travel

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

### COMPONENT CONDITION SUMMARY







#### 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. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS							
Sample Status				SEVERE	SEVERE	SEVERE	
Iron	ppm	ASTM D5185m	>1200	<b>e</b> 2881	<b>b</b> 5191	9 3631	
Chromium	ppm	ASTM D5185m	>20	<b>A</b> 26	<b>b</b> 51	• 36	
Aluminum	ppm	ASTM D5185m	>100	<u> </u>	<u> </u>	▲ 549	
Silicon	ppm	ASTM D5185m	>100	952	2314	1705	

Customer Id: TRIBUR Sample No.: ASC0000717 Lab Number: 05968077 Test Package: MOBCE



To manage this report scan the QR code

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

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.			
Check Dirt Access			?	We advise that you check all areas where dirt can enter the system.			

#### HISTORICAL DIAGNOSIS



WEAR

#### 31 Jul 2022 Diag: Don Baldridge

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. The iron and chrome levels are severe. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.



view report

#### 21 Oct 2021 Diag: Don Baldridge

We advise that you check all areas where dirt can enter the system. 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.Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

#### 13 Jun 2019 Diag: Jonathan Hester



We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.



## ASCENDUM

## **OIL ANALYSIS REPORT**

Sample Rating Trend

WEAR

X



## Ascendum Machinery/500 Hour CSA VOLVO EC300E 1741 (S/N 311070) Component

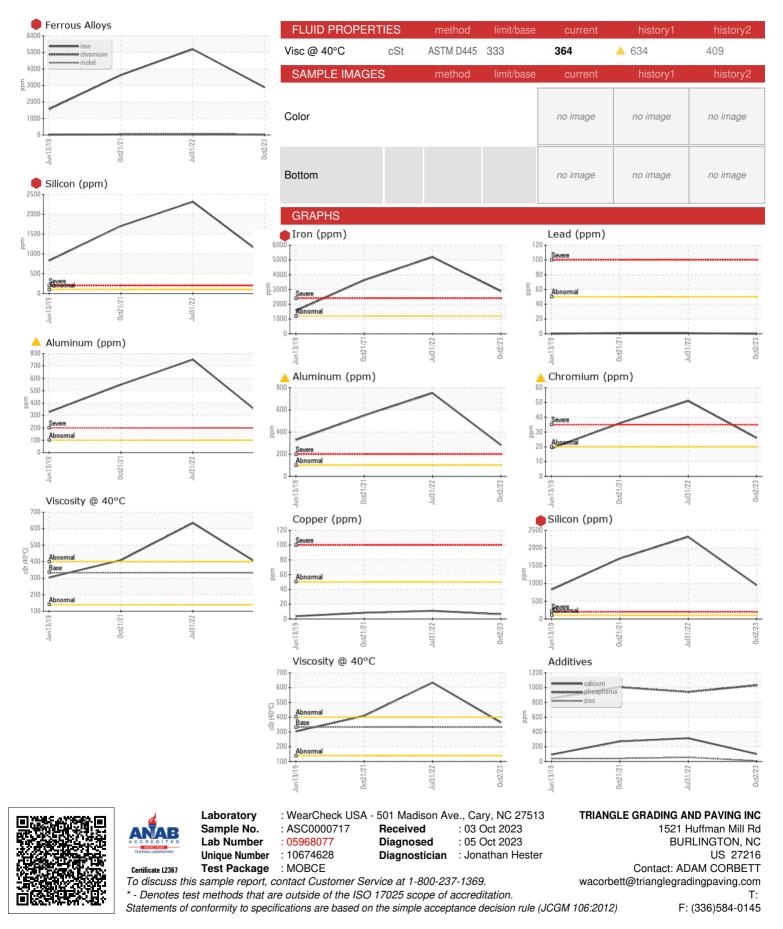
**Right Travel** 

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

DIAGNOSIS	SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		ASC0000717	VCP386816	VCP343371
We advise that you check all areas where dirt can	Sample Date		Client Info		02 Oct 2023	31 Jul 2022	21 Oct 2021
enter the system. The oil change at the time of	Machine Age	hrs	Client Info		7994	6958	6129
sampling has been noted. We advise that you	Oil Age	hrs	Client Info		1865	0	0
nspect for the source(s) of wear. We recommend in early resample to monitor this condition.	Oil Changed		Client Info		Changed	Not Changd	Changed
Wear	Sample Status				SEVERE	SEVERE	SEVERE
Gear wear is indicated.	WEAR METALS		method	limit/base	e current	history1	history2
Contamination	Iron	ppm	ASTM D5185m	>1200	2881	<b>b</b> 5191	3631
lemental levels of silicon (Si) and aluminum (Al)	Chromium	ppm	ASTM D5185m	>20	<u>^</u> 26	<b>5</b> 1	<b>3</b> 6
dicate alumina-silicate (coarse dirt) ingress.	Nickel	ppm	ASTM D5185m		4	2	3
luid Condition	Titanium	ppm	ASTM D5185m		25	65	54
he oil is no longer serviceable due to the presence	Silver	ppm	ASTM D5185m		0	0	<1
contaminants.	Aluminum	ppm	ASTM D5185m	>100	▲ 283	▲ 751	▲ 549
	Lead	ppm	ASTM D5185m		0	<1	1
	Copper	ppm	ASTM D5185m		6	11	8
	Tin	ppm	ASTM D5185m		0	0	1
	Antimony		ASTM D5185m				<1
	Vanadium	ppm	ASTM D5185m	20	1	3	2
		ppm			0	<1	
	Cadmium ADDITIVES	ppm	ASTM D5185m	limit/booo			<1 history2
				limit/base		history1	,
	Boron	ppm	ASTM D5185m		196	165	185
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		3	6	5
	Manganese	ppm	ASTM D5185m		20	42	29
	Magnesium	ppm	ASTM D5185m		53	137	130
	Calcium	ppm	ASTM D5185m		103	315	272
	Phosphorus	ppm	ASTM D5185m		1032	941	1006
	Zinc	ppm	ASTM D5185m		8	56	41
	Sulfur	ppm	ASTM D5185m		32877	40576	25056
	CONTAMINANTS		method	limit/base	e current	history1	history2
	Silicon	ppm	ASTM D5185m	>100	952	2314	1705
	Sodium	ppm	ASTM D5185m		45	135	119
	Potassium	ppm	ASTM D5185m	>20	16	43	33
	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE	NONE	VLITE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
	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
		scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	Scalai					
	Emulsified Water	scalar	*Visual	>0.25	NEG	NEG	NEG

## ASCENDUM

## **OIL ANALYSIS REPORT**



Submitted By: CHRISTOPHER CANIPE