



# VOLVO

## OIL ANALYSIS REPORT

WEAR **NORMAL**

CONTAMINATION **SEVERE**

FLUID CONDITION **NORMAL**



Area  
**TRI-CITY EQUIPMENT [387005]**

Machine Id  
**VOLVO A40F 11329**

Component  
**Diesel Engine**

Fluid  
**{not provided} (--- GAL)**

### RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 0W40 Diesel Engine Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample.

### WEAR

All component wear rates are normal.

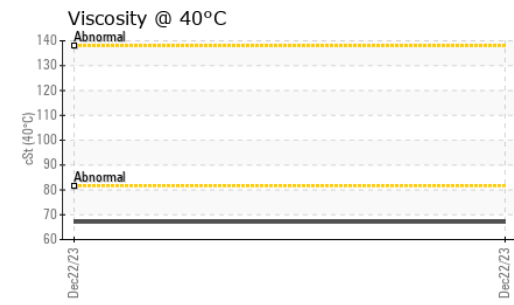
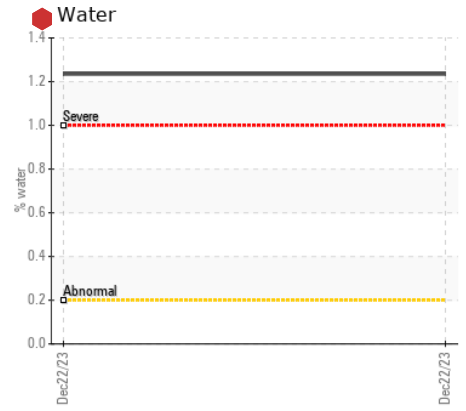
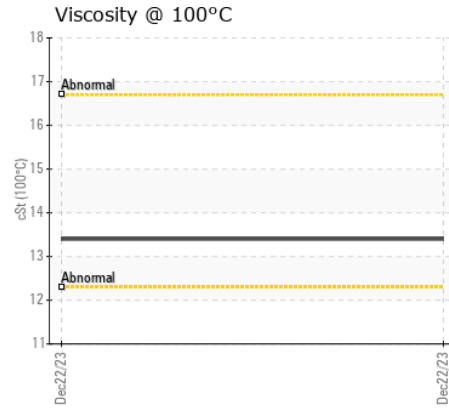
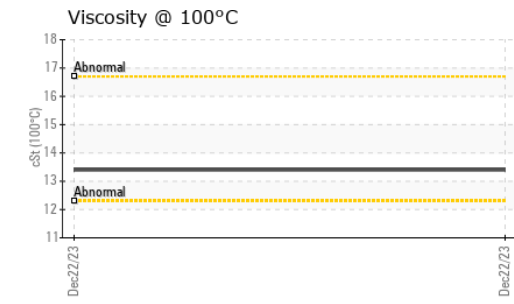
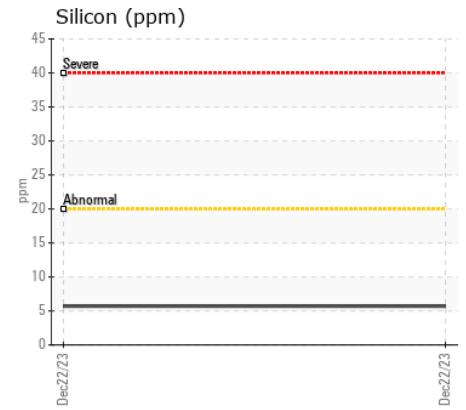
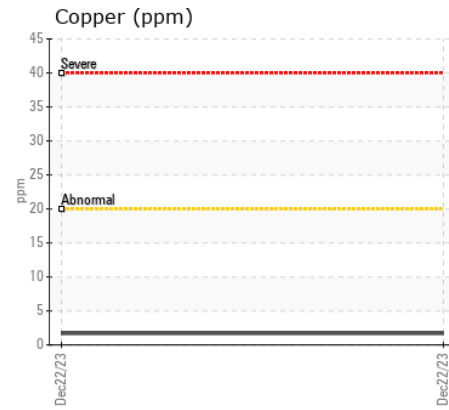
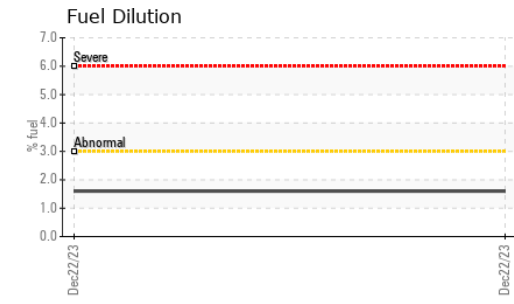
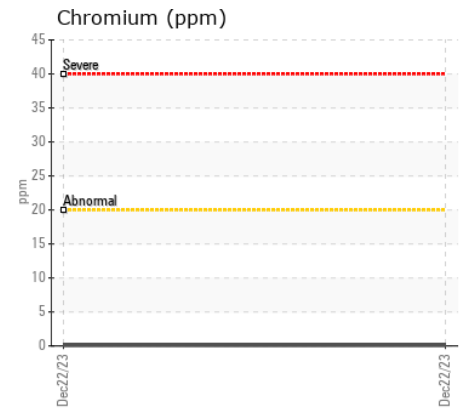
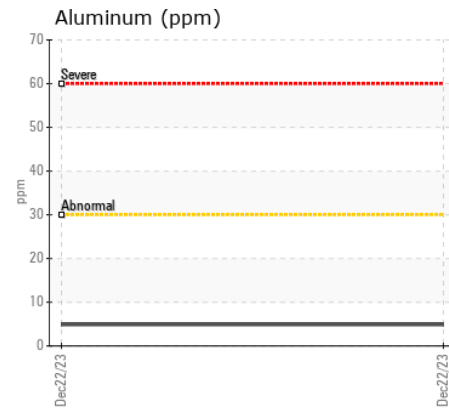
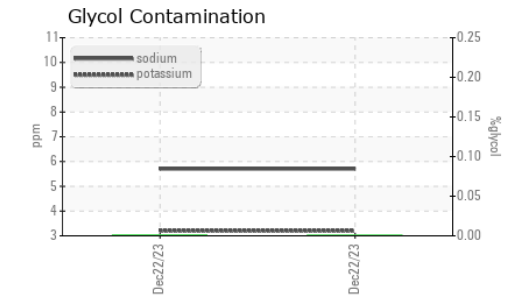
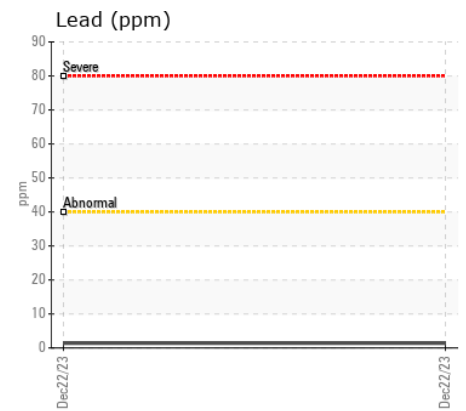
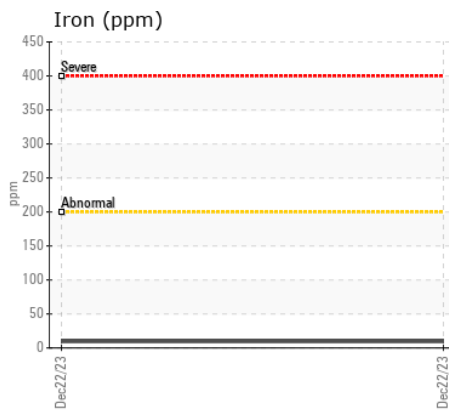
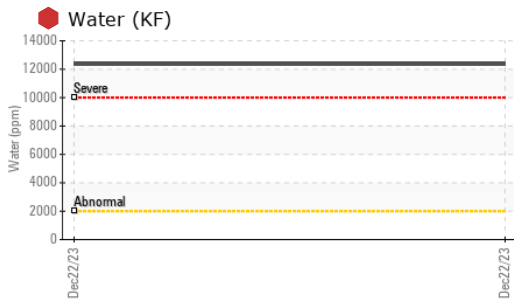
### CONTAMINATION

Light fuel dilution occurring. There is a high concentration of water present in the oil. Test for glycol is negative. No other contaminants were detected in the oil.

### 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		<b>VCP392068</b>	---	---
Sample Date		Client Info		<b>22 Dec 2023</b>	---	---
Machine Age	hrs	Client Info		<b>17267</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Not Changd</b>	---	---
Filter Changed		Client Info		<b>Not Changd</b>	---	---
Sample Status				<b>SEVERE</b>	---	---
Iron	ppm	ASTM D5185(m)	>200	<b>10</b>	---	---
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>30	<b>5</b>	---	---
Lead	ppm	ASTM D5185(m)	>40	<b>1</b>	---	---
Copper	ppm	ASTM D5185(m)	>20	<b>2</b>	---	---
Tin	ppm	ASTM D5185(m)	>20	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Silicon	ppm	ASTM D5185(m)	>20	<b>6</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	---	---
Fuel	%	ASTM D7593*	>3.0	<b>1.6</b>	---	---
Water	%	ASTM D6304*	>0.2	<b>1.235</b>	---	---
ppm Water	ppm	ASTM D6304*	>2000	<b>12356</b>	---	---
Glycol	%	ASTM D7922*		<b>0.0</b>	---	---
Soot %	%	ASTM D7844*	>3	<b>0.2</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>12.5</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>14.2</b>	---	---
Emulsified Water	scalar	Visual*	>0.2	<b>.2%</b>	---	---
Sodium	ppm	ASTM D5185(m)		<b>6</b>	---	---
Boron	ppm	ASTM D5185(m)		<b>51</b>	---	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>85</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m)		<b>31</b>	---	---
Calcium	ppm	ASTM D5185(m)		<b>2147</b>	---	---
Phosphorus	ppm	ASTM D5185(m)		<b>1055</b>	---	---
Zinc	ppm	ASTM D5185(m)		<b>1194</b>	---	---
Sulfur	ppm	ASTM D5185(m)		<b>3544</b>	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.8</b>	---	---
Visc @ 40°C	cSt	ASTM D7279(m)		<b>67.1</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		<b>13.4</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*		<b>206</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : VCP392068  
**Lab Number** : 02605854  
**Unique Number** : 5706940  
**Test Package** : MOB 1 ( Additional Tests: FUELDILUTION, Glycol, KF, KV40, PercentFuel, VI )

**Strongco Equipment**  
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 Breslau, ON  
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*To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.*