



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**VOLVO SD115R SDR-1 (S/N 236769)**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>DE0000581</b>	---	---
Sample Date		Client Info		<b>26 Dec 2023</b>	---	---
Machine Age	hrs	Client Info		<b>661</b>	---	---
Oil Age	hrs	Client Info		<b>150</b>	---	---
Filter Age	hrs	Client Info		<b>150</b>	---	---
Oil Changed		Client Info		<b>Not Chngd</b>	---	---
Filter Changed		Client Info		<b>Not Chngd</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>38</b>	---	---
Chromium	ppm	ASTM D5185m	>20	<b>3</b>	---	---
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>25	<b>20</b>	---	---
Lead	ppm	ASTM D5185m	>40	<b>0</b>	---	---
Copper	ppm	ASTM D5185m	>330	<b>2</b>	---	---
Tin	ppm	ASTM D5185m	>15	<b>1</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

### CONTAMINATION

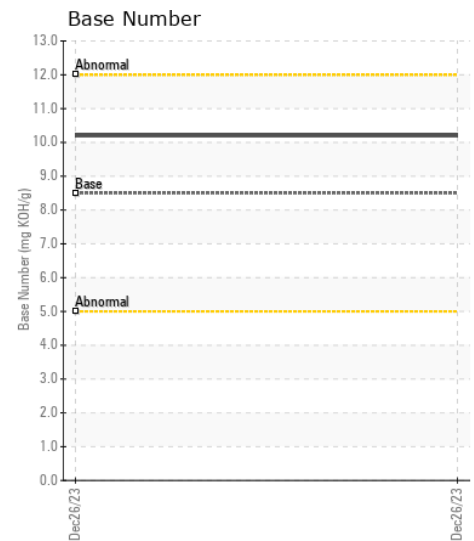
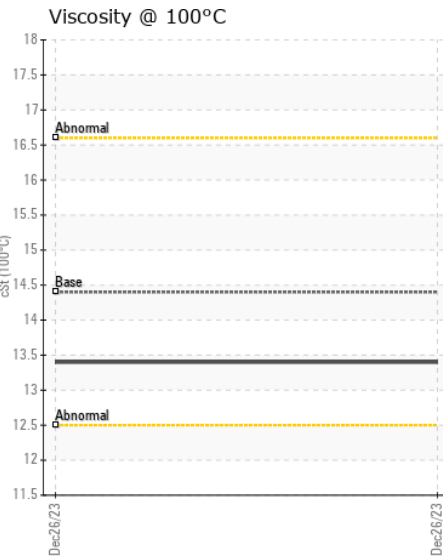
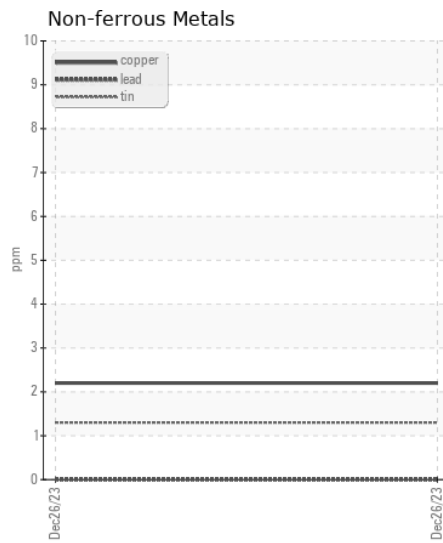
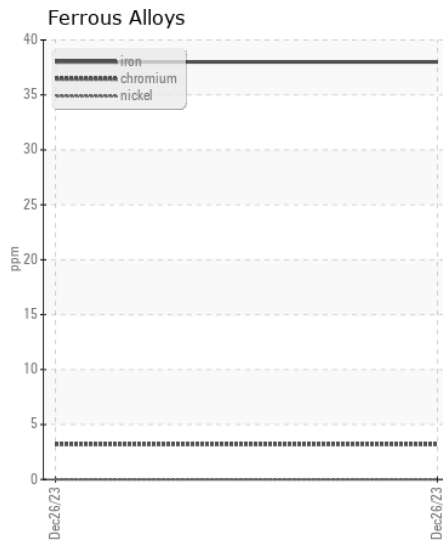
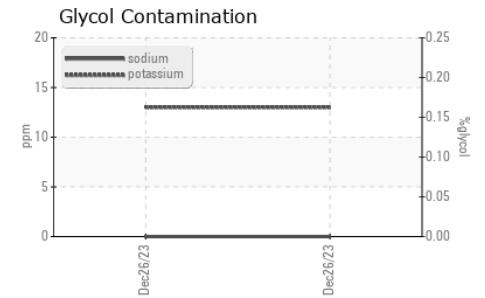
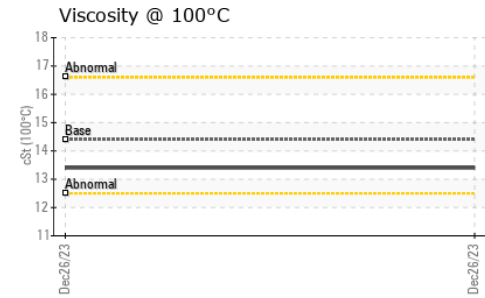
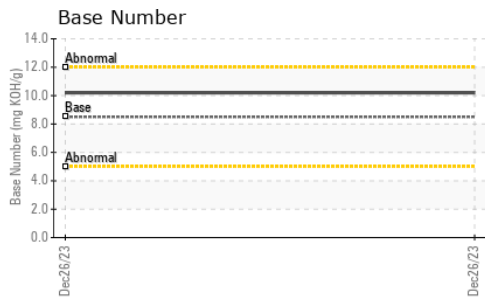
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>13</b>	---	---
Fuel		WC Method	>6.0	<b>&lt;1.0</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Glycol	%	*ASTM D2982		<b>NEG</b>	---	---
Soot %	%	*ASTM D7844	>3	<b>0.1</b>	---	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.6</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>17.9</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	---	---

### FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>158	<b>0</b>	---	---
Boron	ppm	ASTM D5185m	250	<b>7</b>	---	---
Barium	ppm	ASTM D5185m	10	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	100	<b>60</b>	---	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m	450	<b>984</b>	---	---
Calcium	ppm	ASTM D5185m	3000	<b>1084</b>	---	---
Phosphorus	ppm	ASTM D5185m	1150	<b>1137</b>	---	---
Zinc	ppm	ASTM D5185m	1350	<b>1354</b>	---	---
Sulfur	ppm	ASTM D5185m	4250	<b>3490</b>	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.9</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>10.2</b>	---	---
Visc @ 100°C	cSt	ASTM D445	14.4	<b>13.4</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DE0000581 **Received** : 28 Dec 2023  
**Lab Number** : 06047150 **Tested** : 29 Dec 2023  
**Unique Number** : 10807758 **Diagnosed** : 29 Dec 2023 - Don Baldrige  
**Test Package** : FLEET ( Additional Tests: Glycol )

**EARTHTECH DEVELOPERS**  
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 US 14420  
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To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - 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)