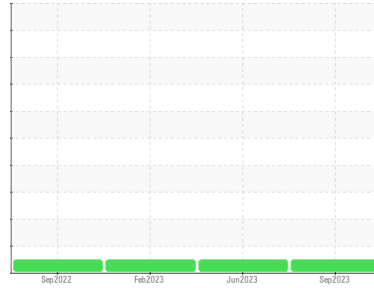


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**FLEET**  
Machine Id  
**VOLVO 2126940 (S/N 4V4NC9EH9NN603205)**  
Component  
**Diesel Engine**  
Fluid  
**NOT GIVEN (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PCA0099313</b>	PCA0095986	PCA0085263
Sample Date	Client Info			<b>05 Sep 2023</b>	01 Jun 2023	02 Feb 2023
Machine Age	mls	Client Info		<b>104560</b>	83872	49987
Oil Age	mls	Client Info		<b>20688</b>	57212	26660
Oil Changed	Client Info			<b>Changed</b>	Changed	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<b>22</b>	34	25
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	8	9
Lead	ppm	ASTM D5185m	>40	<b>0</b>	3	2
Copper	ppm	ASTM D5185m	>330	<b>27</b>	69	27
Tin	ppm	ASTM D5185m	>15	<b>1</b>	3	3
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

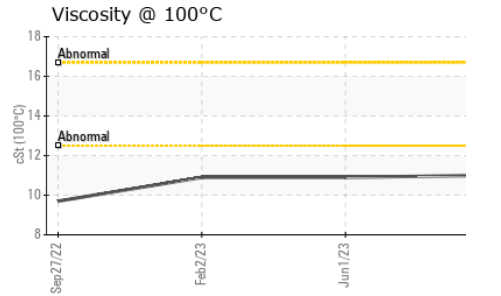
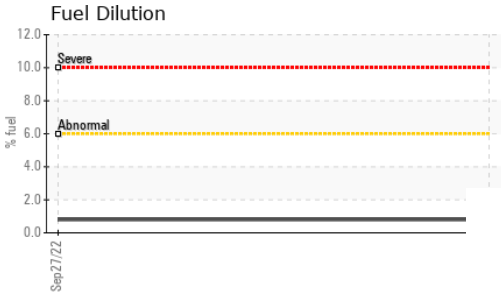
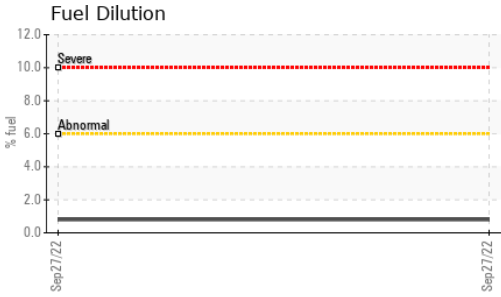
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>1</b>	5	10
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>57</b>	62	69
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	1
Magnesium	ppm	ASTM D5185m		<b>979</b>	917	920
Calcium	ppm	ASTM D5185m		<b>1077</b>	1104	1221
Phosphorus	ppm	ASTM D5185m		<b>1014</b>	847	1049
Zinc	ppm	ASTM D5185m		<b>1281</b>	1214	1262
Sulfur	ppm	ASTM D5185m		<b>3495</b>	3043	3222

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>7</b>	9	10
Sodium	ppm	ASTM D5185m		<b>3</b>	3	2
Potassium	ppm	ASTM D5185m	>20	<b>9</b>	24	26
Fuel	%	ASTM D3524	>6.0	<b>&lt;1.0</b>	<1.0	<1.0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.5</b>	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.6</b>	10.6	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.0</b>	22.9	19.6

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.2</b>	19.6	15.5
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.0</b>	5.5	7.8

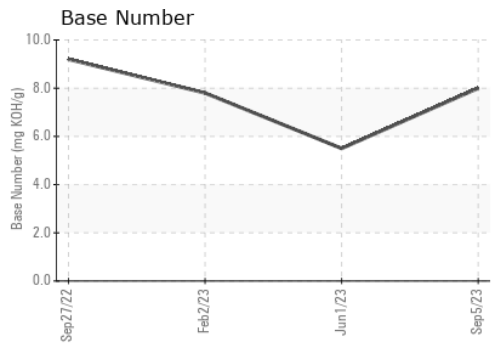
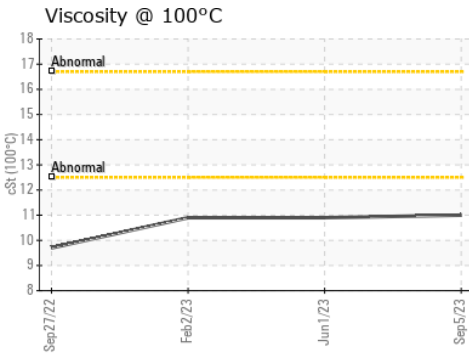
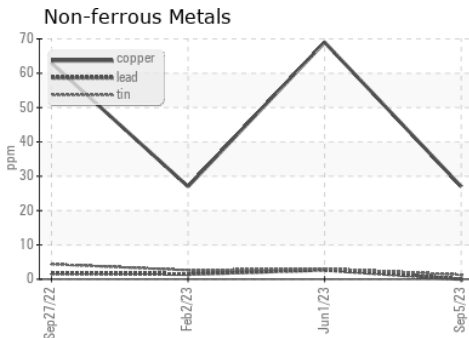
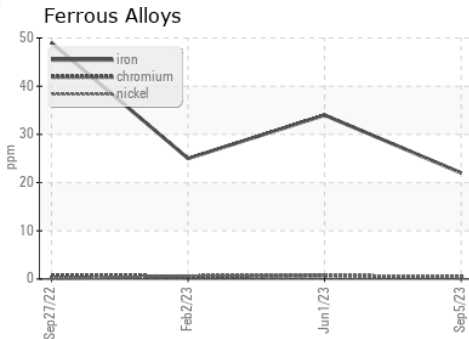
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	<b>11.0</b>	10.9	10.9

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0099313 **Received** : 12 Sep 2023  
**Lab Number** : **05948825** **Diagnosed** : 14 Sep 2023  
**Unique Number** : 10644784 **Diagnostician** : Jonathan Hester  
**Test Package** : FLEET ( Additional Tests: FuelDilution )

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)

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