



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**VOLVO L90G 617183**  
Component  
**Diesel Engine**  
Fluid  
**CHEVRON 15W40 (5 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ML0000025</b>	ML0000033	VCP447907
Sample Date		Client Info		<b>08 Apr 2024</b>	29 Feb 2024	11 Jan 2024
Machine Age	hrs	Client Info		<b>29078</b>	29078	28818
Oil Age	hrs	Client Info		<b>250</b>	260	0
Filter Age	hrs	Client Info		<b>250</b>	260	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>10</b>	11	7
Chromium	ppm	ASTM D5185m	>10	<b>1</b>	<1	0
Nickel	ppm	ASTM D5185m	>10	<b>2</b>	2	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>8</b>	▲ 16	6
Lead	ppm	ASTM D5185m	>20	<b>1</b>	0	<1
Copper	ppm	ASTM D5185m	>15	<b>1</b>	<1	1
Tin	ppm	ASTM D5185m	>10	<b>1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

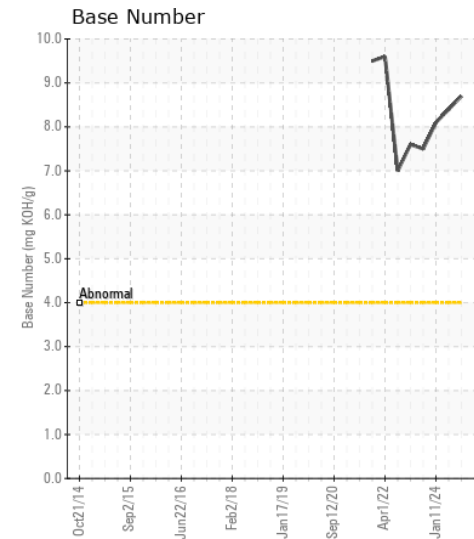
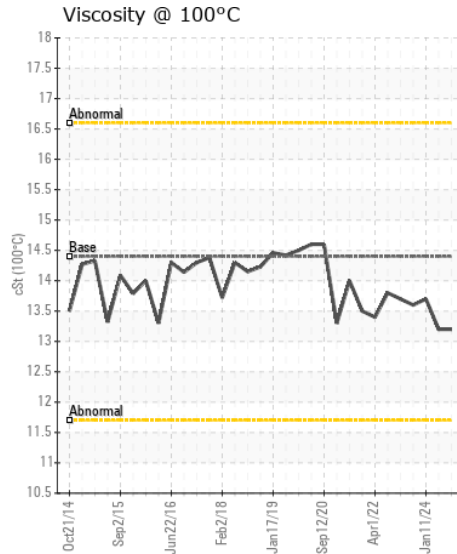
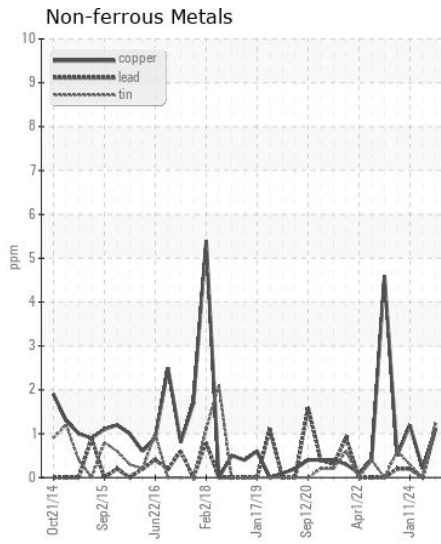
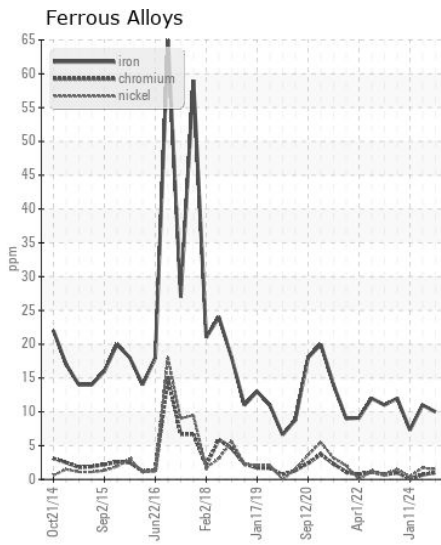
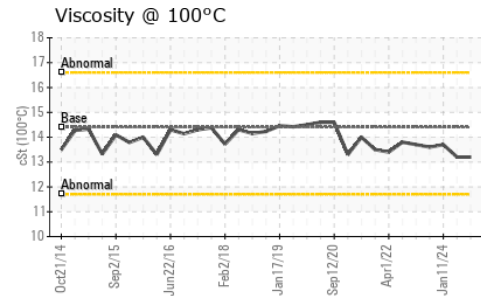
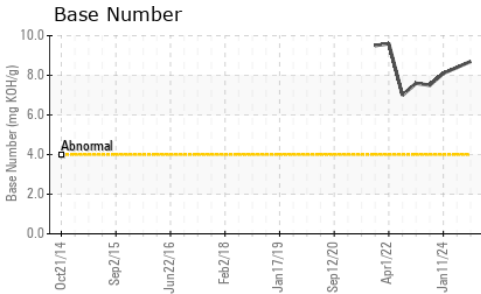
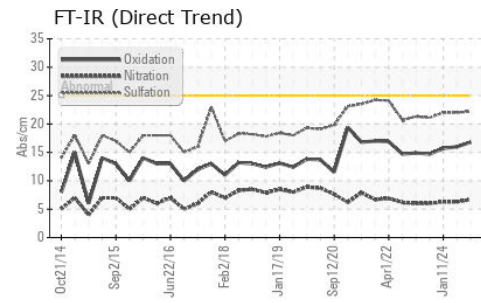
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>8</b>	7	7
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	0	<1
Fuel		WC Method	>6.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.7</b>	6.3	6.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.2</b>	22.0	22.0
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

**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	>50	<b>&lt;1</b>	<1	<1
Boron	ppm	ASTM D5185m		<b>289</b>	329	347
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>107</b>	106	106
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>565</b>	672	533
Calcium	ppm	ASTM D5185m		<b>1503</b>	1655	1431
Phosphorus	ppm	ASTM D5185m		<b>819</b>	934	961
Zinc	ppm	ASTM D5185m		<b>913</b>	1048	1124
Sulfur	ppm	ASTM D5185m		<b>2702</b>	3161	3031
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.8</b>	16.0	15.7
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.7</b>	8.4	8.1
Visc @ 100°C	cSt	ASTM D445	14.4	<b>13.2</b>	13.2	13.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ML0000025  
**Lab Number** : 06146891  
**Unique Number** : 10976969  
**Test Package** : CONST ( Additional Tests: TBN )

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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)