



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



Machine Id  
**VOLVO L90G 617019**  
Component  
**Hydraulic System**  
Fluid  
**{not provided} (25 GAL)**

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor. ( Customer Sample Comment: 8223 )

**WEAR**

All component wear rates are normal.

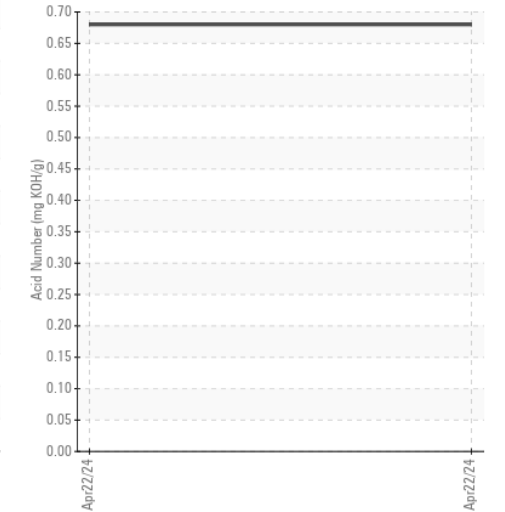
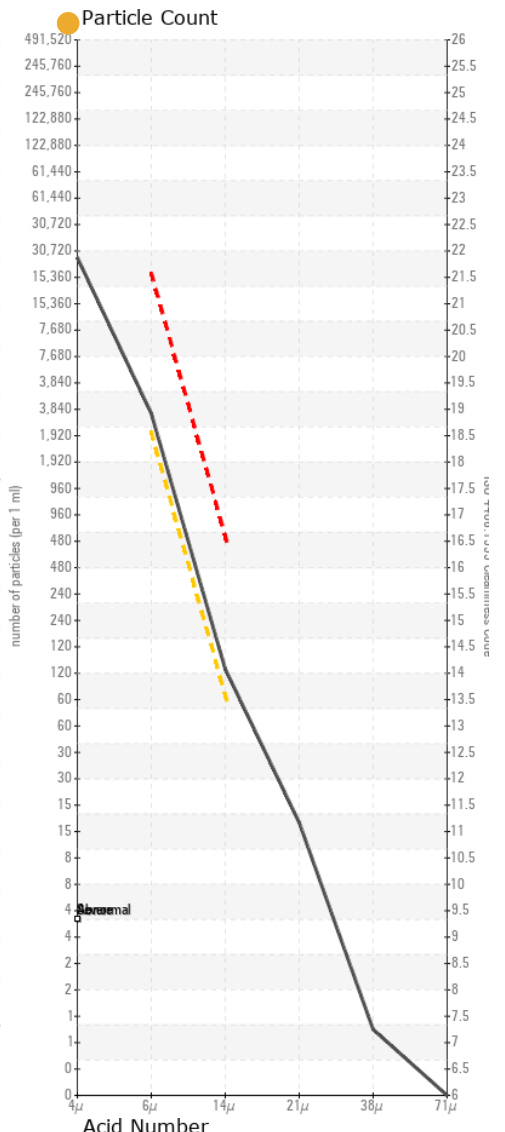
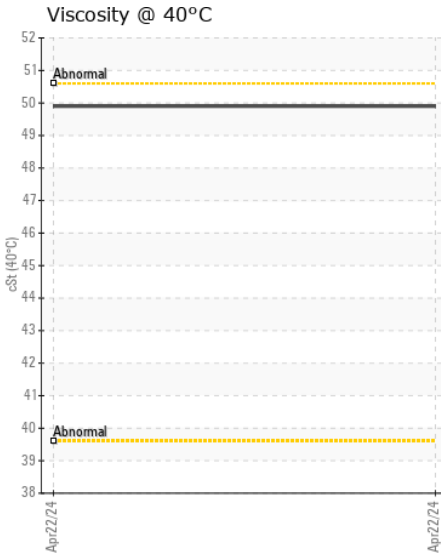
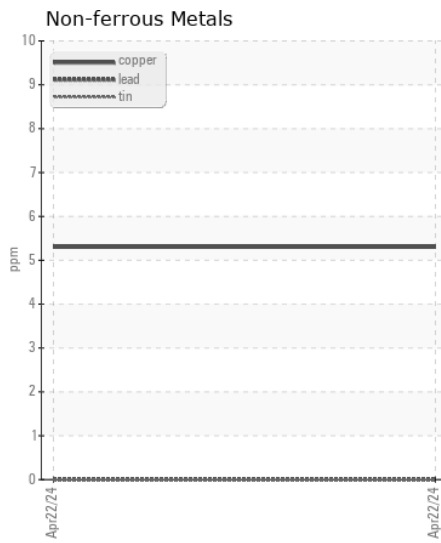
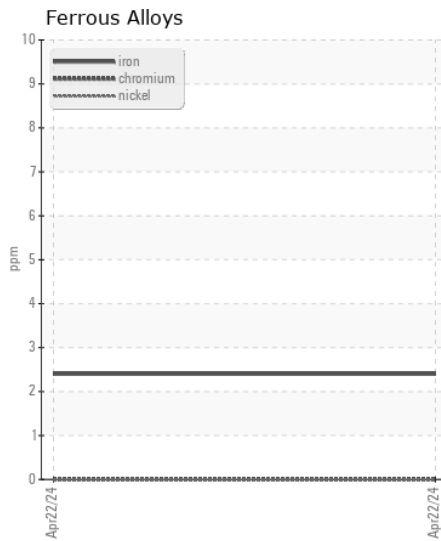
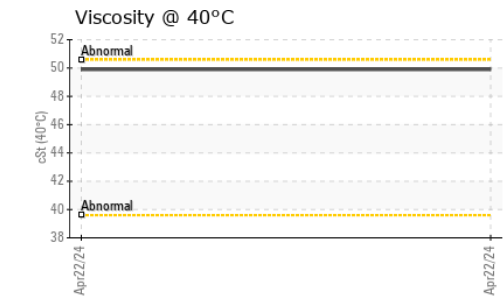
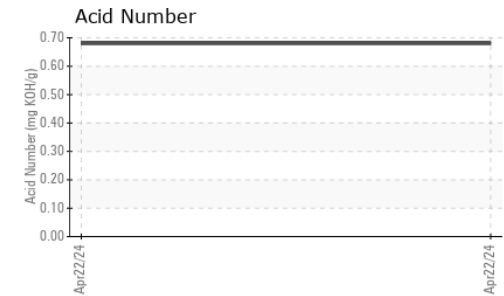
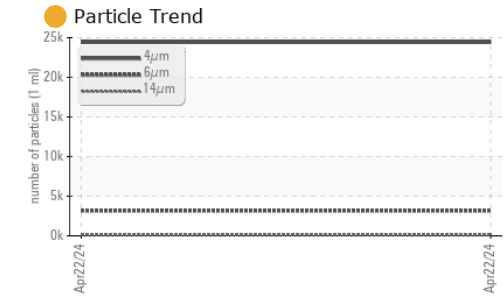
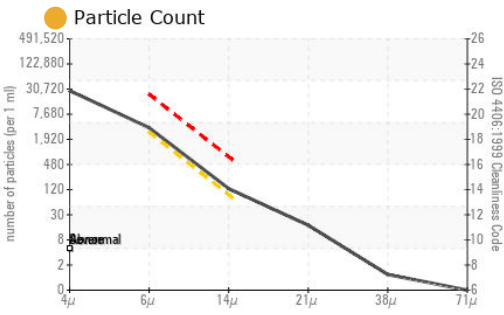
**CONTAMINATION**

There is a moderate amount of particulates present in the oil.

**FLUID CONDITION**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ML0000970</b>	---	---
Sample Date		Client Info		<b>22 Apr 2024</b>	---	---
Machine Age	hrs	Client Info		<b>8223</b>	---	---
Oil Age	hrs	Client Info		<b>300</b>	---	---
Filter Age	hrs	Client Info		<b>300</b>	---	---
Oil Changed		Client Info		<b>N/A</b>	---	---
Filter Changed		Client Info		<b>N/A</b>	---	---
Sample Status				<b>ATTENTION</b>	---	---
Iron	ppm	ASTM D5185m	>50	<b>2</b>	---	---
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	---	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>20	<b>&lt;1</b>	---	---
Lead	ppm	ASTM D5185m	>20	<b>0</b>	---	---
Copper	ppm	ASTM D5185m	>150	<b>5</b>	---	---
Tin	ppm	ASTM D5185m	>20	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Silicon	ppm	ASTM D5185m	>20	<b>14</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	---	---
Water		WC Method	>0.1	<b>NEG</b>	---	---
Particles >4µm		ASTM D7647		<b>24422</b>	---	---
Particles >6µm		ASTM D7647	>2500	<b>3173</b>	---	---
Particles >14µm		ASTM D7647	>80	<b>112</b>	---	---
Particles >21µm		ASTM D7647	>20	<b>15</b>	---	---
Particles >38µm		ASTM D7647	>4	<b>1</b>	---	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>-/18/13	<b>22/19/14</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>LIGHT</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	>0.1	<b>NEG</b>	---	---
Sodium	ppm	ASTM D5185m		<b>3</b>	---	---
Boron	ppm	ASTM D5185m		<b>89</b>	---	---
Barium	ppm	ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	---	---
Manganese	ppm	ASTM D5185m		<b>0</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>18</b>	---	---
Calcium	ppm	ASTM D5185m		<b>2952</b>	---	---
Phosphorus	ppm	ASTM D5185m		<b>942</b>	---	---
Zinc	ppm	ASTM D5185m		<b>1206</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>8105</b>	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.68</b>	---	---
Visc @ 40°C	cSt	ASTM D445		<b>49.9</b>	---	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ML0000970 **Received** : 24 Apr 2024  
**Lab Number** : 06159006 **Tested** : 25 Apr 2024  
**Unique Number** : 10994429 **Diagnosed** : 25 Apr 2024 - Don Baldrige  
**Test Package** : CONST

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Certificate L2367  
 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)