

Machine Id VOLVO L90H 625060 Component Transmission (Auto) Fluid VOLVO AT 102 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

Gear wear is indicated.

CONTAMINATION

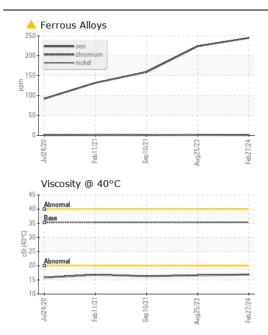
There is no indication of any contamination in the fluid.

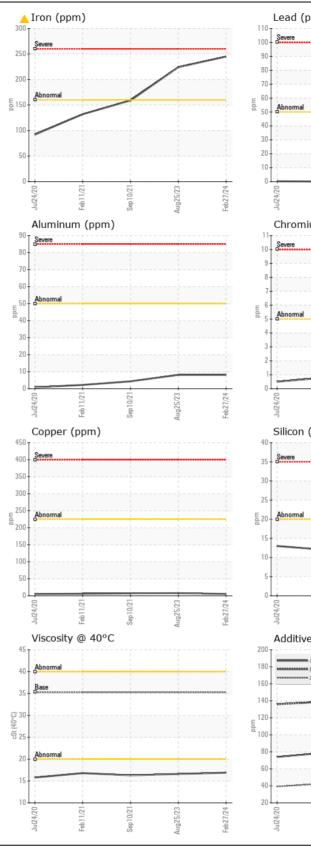
FLUID CONDITION

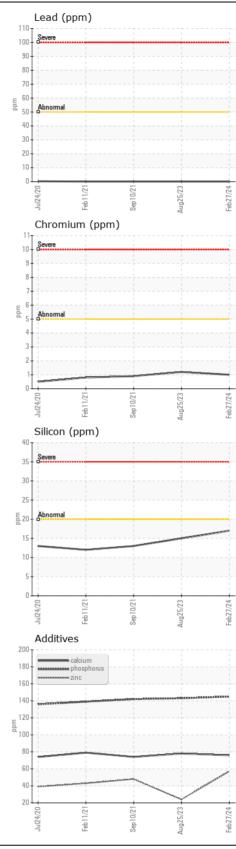
The condition of the fluid is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP437045	VCP426221	VCP326046
Sample Date		Client Info		27 Feb 2024	25 Aug 2023	10 Sep 2021
Machine Age	hrs	Client Info		3331	2836	0
Oil Age	hrs	Client Info		0	0	1500
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	MARGINAL
Iron	ppm	ASTM D5185m	>160	245	224	159
Chromium	ppm	ASTM D5185m	>5	1	1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m	20	0	<1	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>50	8	8	4
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>225	5	8	7
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
T CHOW MICLA	Scala	visuai	NONL	NONE	NONE	NONE
	304141	visuai	NONL	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	17	15	13
Silicon Potassium		ASTM D5185m ASTM D5185m		17 1	15 3	13 0
Silicon	ppm	ASTM D5185m ASTM D5185m WC Method	>20 >20 >20 >0.1	17 1 NEG	15 3 NEG	13 0 NEG
Silicon Potassium Water Silt	ppm ppm scalar	ASTM D5185m ASTM D5185m WC Method *Visual	>20 >20 >0.1 NONE	17 1 NEG NONE	15 3 NEG NONE	13 0 NEG NONE
Silicon Potassium Water Silt Debris	ppm ppm scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual	>20 >20 >0.1 NONE NONE	17 1 NEG NONE NONE	15 3 NEG NONE NONE	13 0 NEG NONE LIGHT
Silicon Potassium Water Silt Debris Sand/Dirt	ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual	>20 >20 >0.1 NONE NONE NONE	17 1 NEG NONE NONE	15 3 NEG NONE NONE NONE	13 0 NEG NONE LIGHT NONE
Silicon Potassium Water Silt Debris Sand/Dirt Appearance	ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>20 >20 >0.1 NONE NONE NONE NORML	17 1 NEG NONE NONE NONE NORML	15 3 NEG NONE NONE NONE NORML	13 0 NEG NONE LIGHT NONE NORML
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor	ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual	>20 >20 >0.1 NONE NONE NONE NORML	17 1 NEG NONE NONE NONE NORML NORML	15 3 NEG NONE NONE NONE NORML NORML	13 0 NEG NONE LIGHT NONE NORML NORML
Silicon Potassium Water Silt Debris Sand/Dirt Appearance	ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>20 >20 >0.1 NONE NONE NONE NORML	17 1 NEG NONE NONE NONE NORML	15 3 NEG NONE NONE NONE NORML	13 0 NEG NONE LIGHT NONE NORML
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor	ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual	>20 >20 >0.1 NONE NONE NONE NORML	17 1 NEG NONE NONE NONE NORML NORML	15 3 NEG NONE NONE NONE NORML NORML	13 0 NEG NONE LIGHT NONE NORML NORML
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 >0.1 NONE NONE NONE NORML	17 1 NEG NONE NONE NONE NORML NORML NEG	15 3 NEG NONE NONE NORML NORML NEG	13 0 NEG NONE LIGHT NONE NORML NORML NEG
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >20 >0.1 NONE NONE NORML NORML >0.1	17 1 NEG NONE NONE NORML NORML NEG	15 3 NEG NONE NONE NORML NORML NEG 8	13 0 NEG NONE LIGHT NORML NORML NEG 5
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm ppm scalar scalar scalar scalar scalar scalar gpm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >20 >0.1 NONE NORME NORML >0.1	17 1 NEG NONE NONE NORML NORML NEG 7 26	15 3 NEG NONE NONE NORML NORML NEG 8 28	13 0 NEG NONE LIGHT NORML NORML NEG 5 36
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>20 >20 >0.1 NONE NONE NORML NORML >0.1	17 1 NEG NONE NONE NORML NORML NEG 7 26 1	15 3 NEG NONE NONE NORML NORML NEG 8 28 0	13 0 NEG NONE LIGHT NORML NORML NORML NEG 5 36 0
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20 >0.1 NONE NORME NORML >0.1	17 1 NEG NONE NONE NORML NORML NEG 7 26 1 0	15 3 NEG NONE NONE NORML NORML NEG 8 28 0 <1	13 0 NEG NONE LIGHT NORML NORML NEG 5 36 0 <1
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >20 >20 >0.1 NONE NORME NORML >0.1 187 0.0 0.0 0.0 0.0 	17 1 NEG NONE NONE NORML NORML NEG 7 26 1 0 10	15 3 NEG NONE NONE NORML NORML NEG 8 28 0 <1 9	13 0 NEG NONE LIGHT NORML NORML NEG 5 36 0 <1 8
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >20 >20 >0.1 NONE NONE NORML >0.1 187 0.0 0.0 0.0 6.8 	17 1 NEG NONE NONE NORML NORML NEG 7 26 1 0 10 2	15 3 NEG NONE NONE NORML NORML NEG 8 28 0 <1 9 0	13 0 NEG NONE LIGHT NONE NORML NEG 5 36 0 < 1 8 1
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >20 >20 >0.1 NONE NORML NORML >0.1 187 0.0 0.0 0.0 6.8 215 	17 1 NEG NONE NONE NORML NORML NEG 7 26 1 0 10 10 2 2 76	15 3 NEG NONE NONE NORML NORML NEG 8 28 0 <1 9 0 78	13 0 NEG NONE LIGHT NORML NORML NEG 5 36 0 <1 8 1 1 74
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar gpm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >20 >20 >0.1 NONE NORME NORML >0.1 187 0.0 0.0 0.0 6.8 215 445 	17 1 NEG NONE NONE NORML NORML NEG 7 26 1 0 10 2 7 6 10 2 7 6 145	15 3 NEG NONE NONE NORML NORML NEG 8 28 0 28 0 4 1 9 0 78 143	13 0 NEG NONE LIGHT NORML NORML NEG 5 36 0 <1 8 1 74 142

Contact/Location: PM Services ? - RIPTAM









RIPA AND ASSOCIATES Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : VCP437045 Received 10149 FISHER AVENUE : 25 Apr 2024 Lab Number : 06160822 Tested TAMPA, FL : 26 Apr 2024 Unique Number : 10996245 : 29 Apr 2024 - Don Baldridge US 33619 Diagnosed Test Package : MOB 1 **Contact: PM Services** Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. PMServices@ripaconstruction.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: PM Services ? - RIPTAM Page 2 of 2