

## Machine Id VOLVO L120H 633400 Component Front Axle Fluid VALVOLINE 15W40 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

**WEAR** 

All component wear rates are normal.

## CONTAMINATION

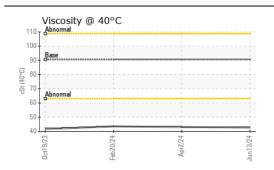
Moderate concentration of visible dirt/debris present in the oil.

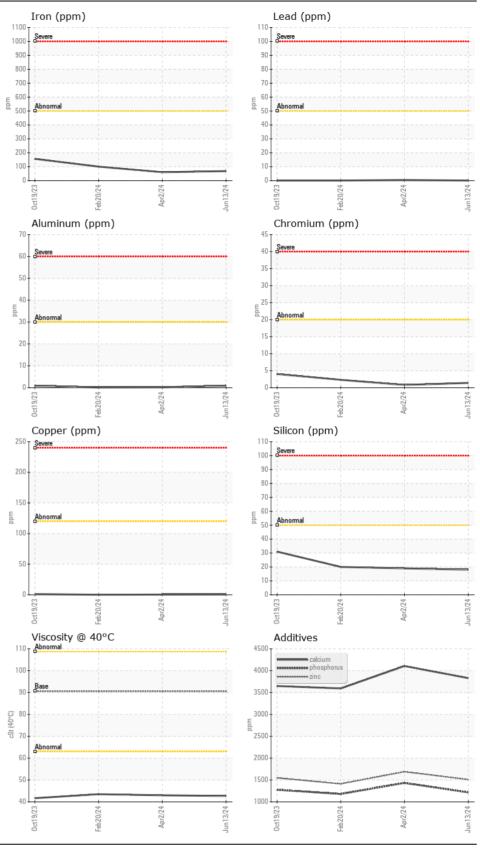
## FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP443997	VCP439000	VCP437225
Sample Date		Client Info		13 Jun 2024	02 Apr 2024	20 Feb 2024
Machine Age	hrs	Client Info		3134	0	2033
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status			ABNORMAL	NORMAL	NORMAL	
Iron	ppm	ASTM D5185m	>500	68	60	100
Chromium	ppm	ASTM D5185m	>20	1	<1	2
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m	210	0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>30	۰ <1	<1	<1
Lead	ppm	ASTM D5185m	>50	0	<1	0
Copper	ppm	ASTM D5185m	>120	۰ <1	<1	0
Tin	ppm	ASTM D5185m	>20	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	MODER	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>50	18	19	20
Potassium	ppm ppm	ASTM D5185m	>50 >20	0	0	0
		ASTM D5185m WC Method	>20 >0.2	0 NEG	0 NEG	0 NEG
Potassium Water Silt	ppm scalar	ASTM D5185m WC Method *Visual	>20 >0.2 NONE	0 NEG NONE	0 NEG LIGHT	0 NEG NONE
Potassium Water Silt Debris	ppm scalar scalar	ASTM D5185m WC Method *Visual *Visual	>20 >0.2 NONE NONE	0 NEG NONE	0 NEG LIGHT NONE	0 NEG NONE NONE
Potassium Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual	>20 >0.2 NONE NONE NONE	0 NEG NONE MODER NONE	0 NEG LIGHT NONE NONE	0 NEG NONE NONE
Potassium Water Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NONE NORML	0 NEG NONE MODER NONE NORML	0 NEG LIGHT NONE NONE NORML	0 NEG NONE NONE NORML
Potassium Water Silt Debris Sand/Dirt Appearance Odor	ppm scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NORML NORML	0 NEG NONE MODER NONE NORML	0 NEG LIGHT NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML
Potassium Water Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NONE NORML	0 NEG NONE MODER NONE NORML	0 NEG LIGHT NONE NONE NORML	0 NEG NONE NONE NORML
Potassium Water Silt Debris Sand/Dirt Appearance Odor	ppm scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NORML NORML	0 NEG NONE MODER NONE NORML	0 NEG LIGHT NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NORML NORML	0 NEG NONE MODER NORE NORML NORML NEG	0 NEG LIGHT NONE NONE NORML NORML NEG	0 NEG NONE NONE NORML NORML NEG
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >0.2 NONE NONE NORML NORML >0.2	0 NEG NONE MODER NONE NORML NORML NEG	0 NEG LIGHT NONE NORML NORML NEG 1	0 NEG NONE NONE NORML NORML NEG 2
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	<ul> <li>&gt;20</li> <li>&gt;0.2</li> <li>NONE</li> <li>NORME</li> <li>NORML</li> <li>&gt;0.2</li> <li>39</li> </ul>	0 NEG NONE MODER NORML NORML NEG 2 119	0 NEG LIGHT NONE NORML NORML NEG 1 155	0 NEG NONE NONE NORML NORML NEG 2 124
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	<ul> <li>&gt;20</li> <li>&gt;0.2</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>&gt;0.2</li> <li>39</li> <li>1</li> </ul>	0 NEG NONE MODER NORML NORML NEG 2 119 0	0 NEG LIGHT NONE NORML NORML NEG 1 155 0	0 NEG NONE NONE NORML NORML NEG 2 124 0
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;20</li> <li>&gt;0.2</li> <li>NONE</li> <li>NORML</li> <li>&gt;0.2</li> <li>39</li> <li>1</li> <li>49</li> </ul>	0 NEG NONE MODER NORML NORML NEG 2 119 0	0 NEG LIGHT NONE NORML NORML NEG 1 155 0 <1	0 NEG NONE NONE NORML NORML NEG 2 124 0 3
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;20</li> <li>&gt;0.2</li> <li>NONE</li> <li>NORME</li> <li>NORML</li> <li>&gt;0.2</li> <li>39</li> <li>1</li> <li>49</li> <li>1</li> </ul>	0 NEG NONE MODER NORML NORML NEG 2 119 0 1 2	0 NEG LIGHT NONE NORML NORML NEG 1 155 0 <1 2	0 NEG NONE NONE NORML NORML NEG 2 124 0 3 4
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;20</li> <li>&gt;0.2</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>&gt;0.2</li> <li>39</li> <li>1</li> <li>49</li> <li>1</li> <li>616</li> </ul>	0 NEG NONE MODER NORML NORML NEG 2 119 0 1 2 119 0 1	0 NEG LIGHT NONE NORML NORML NEG 1 155 0 <1 2 2 17	0 NEG NONE NONE NORML NORML NEG 2 124 0 3 4 15
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;20</li> <li>&gt;0.2</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>&gt;0.2</li> <li>39</li> <li>1</li> <li>49</li> <li>1</li> <li>616</li> <li>1554</li> </ul>	0 NEG NONE MODER NORML NORML NEG 2 119 0 1 2 16 3830	0 NEG LIGHT NONE NORML NORML NEG 1 155 0 <1 155 0 <1 2 1 2 17 4105	0 NEG NONE NONE NORML NORML NEG 2 124 0 3 4 15 3593
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;20</li> <li>&gt;0.2</li> <li>NONE</li> <li>NORME</li> <li>NORML</li> <li>&gt;0.2</li> <li>39</li> <li>1</li> <li>49</li> <li>1</li> <li>616</li> <li>1554</li> <li>899</li> </ul>	0 NEG NONE MODER NORML NORML NEG 2 119 0 1 2 16 3830 1217	0 NEG LIGHT NONE NORML NORML NEG 1 155 0 <1 2 2 17 4105 1433	0 NEG NONE NONE NORML NORML NEG 2 124 0 3 4 15 3593 1180

Contact/Location: TAVINS BANKS - CITMILCON





**CITY CARTING** Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 221 OLD GATE LN : VCP443997 : 26 Jun 2024 Lab Number : 06221603 MILFORD, CT Tested : 27 Jun 2024 Unique Number : 11099800 : 28 Jun 2024 - Angela Borella US 06460 Diagnosed Test Package : MOB 1 Contact: TAVINS BANKS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. tavins@citycart.net \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (203)223-3885 F:

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

Contact/Location: TAVINS BANKS - CITMILCON Page 2 of 2