

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id VOLVO L110H 631226 Component Rear Axle Fluid VOLVO WB 102 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

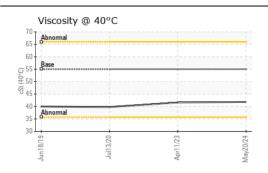
There is no indication of any contamination in the oil.

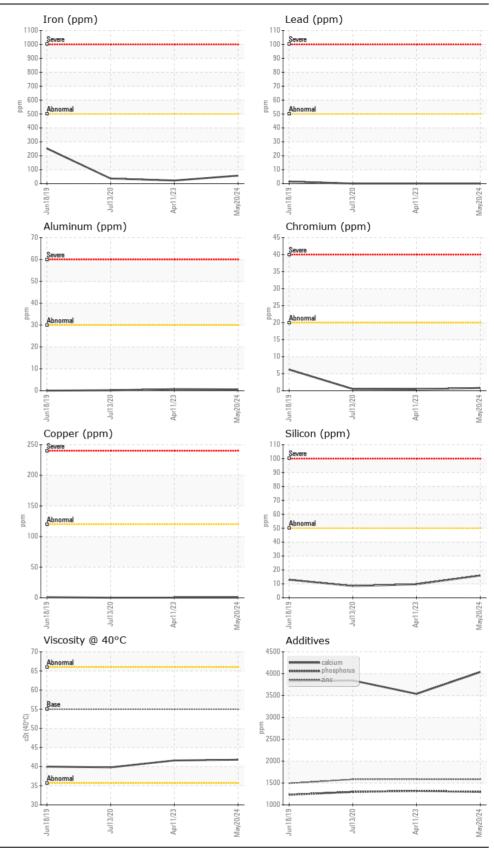
FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP449951	VCP411352	VCP274712
Sample Date		Client Info		20 May 2024	11 Apr 2023	13 Jul 2020
Machine Age	hrs	Client Info		13441	11460	5614
Oil Age	hrs	Client Info		2000	2000	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>500	57	22	36
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m	210	<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>30	<1	<1	<1
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>120	<1	<1	<1
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>50	16	10	8
Potassium	ppm ppm	ASTM D5185m	>20	0	0	6
Potassium Water		ASTM D5185m WC Method	>20 >0.2	0 NEG	0 NEG	6 NEG
Potassium Water Silt	ppm scalar	ASTM D5185m WC Method *Visual	>20 >0.2 NONE	0 NEG NONE	0 NEG MODER	6 NEG NONE
Potassium Water Silt Debris	ppm scalar scalar	ASTM D5185m WC Method *Visual *Visual	>20 >0.2 NONE NONE	0 NEG NONE NONE	0 NEG MODER NONE	6 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 NONE	0 NEG MODER NONE NONE	6 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 NONE NONE NORML	0 NEG MODER NONE NONE NORML	6 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 NONE NORE NORML NORML	0 NEG MODER NONE NONE NORML NORML	6 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 NONE NONE NORML	0 NEG MODER NONE NONE NORML	6 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 NONE NORE NORML NORML	0 NEG MODER NONE NONE NORML NORML	6 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 NONE NORE NORML NORML NEG	0 NEG MODER NONE NONE NORML NORML NEG	6 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 NEG NONE NONE NORML NORML NEG 12	0 NEG MODER NONE NORML NORML NEG 9	6 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	>20 >0.2 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG 12 128	0 NEG MODER NONE NORML NORML NEG 9 131	6 NEG NONE NONE NORML NORML NEG 2 119
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	>20 >0.2 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG 12 128 0	0 NEG MODER NONE NORML NORML NEG 9 131 0	6 NEG NONE NONE NORML NORML NEG 2 119 0
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG 12 128 0 2	0 NEG NONE NONE NORML NORML NEG 9 131 0 2	6 NEG NONE NONE NORML NORML NEG 2 119 0 5
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG 12 128 0 2 2	0 NEG NONE NONE NORML NORML NEG 9 131 0 2 1	6 NEG NONE NONE NORML NORML NEG 2 119 0 5 1
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG 12 128 0 2 2 2 2	0 NEG NONE NONE NORML NORML NEG 9 131 0 2 1 1 20	6 NEG NONE NONE NORML NORML NEG 2 119 0 5 1 19
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum 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	>20 >0.2 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG 12 128 0 2 2 2 2 2 4034	0 NEG NONE NONE NORML NORML NEG 9 131 0 2 131 0 2 1 1 20 3537	6 NEG NONE NONE NORML NORML NEG 2 119 0 5 1 1 19 3845
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	>20 >0.2 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG 12 128 0 2 2 2 2 4 4034 1297	0 NEG NONE NONE NORML NORML NEG 9 131 0 2 1 1 20 3537 1318	6 NEG NONE NONE NORML NORML NEG 2 119 0 5 1 1 19 3845 1296

Contact/Location: PM Services ? - RIPTAM







RIPA AND ASSOCIATES Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 10149 FISHER AVENUE : VCP449951 : 19 Jun 2024 Lab Number : 06215089 Tested TAMPA, FL : 20 Jun 2024 Diagnosed Unique Number : 11087953 : 20 Jun 2024 - Wes Davis US 33619 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.

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

T:

F: