

[RSO036579] Machine Id VOLVO A45G 352532 Component Rear Axle Fluid COWIN 80W90 (GAL)
COWIN 80W90 (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		VCP430862		
Sample Date		Client Info		02 Jan 2024		
Machine Age	hrs	Client Info		5101		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		N/A		
Sample Status				NORMAL		
Iron	ppm	ASTM D5185m	>900	41		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>10	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>30	2		
Lead	ppm	ASTM D5185m	>50	<1		
Copper	ppm	ASTM D5185m	>150	<1		
Tin	ppm	ASTM D5185m	>20	<1		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*\/;ouol				
winte meta	Scalal	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Yellow Metal Silicon	scalar ppm	*Visual ASTM D5185m	NONE	NONE 2		
Yellow Metal Silicon Potassium	scalar	*Visual ASTM D5185m ASTM D5185m	NONE >50 >20	NONE 2 1		
Yellow Metal Silicon Potassium Water	scalar ppm ppm	*Visual ASTM D5185m ASTM D5185m WC Method	NONE >50 >20 >0.2	NONE 2 1 NEG		
Yellow Metal Silicon Potassium Water Silt	scalar ppm ppm scalar	*Visual ASTM D5185m ASTM D5185m WC Method *Visual	NONE >50 >20 >0.2 NONE	NONE 2 1 NEG NONE		
Yellow Metal Silicon Potassium Water Silt Debris	scalar ppm ppm scalar scalar	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual	NONE >50 >20 >0.2 NONE NONE	2 1 NEG NONE NONE	 	
Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt	scalar ppm ppm scalar scalar scalar	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual	NONE >50 >20 >0.2 NONE NONE NONE	NONE 2 1 NEG NONE NONE NONE		
Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance	scalar ppm ppm scalar scalar scalar	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual	NONE >50 >20 >0.2 NONE NONE NONE NORML	NONE 2 1 NEG NONE NONE NONE NORML		
Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor	scalar ppm ppm scalar scalar scalar scalar	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual	NONE >50 >20 >0.2 NONE NONE NONE NORML NORML	NONE 2 1 NEG NONE NONE NONE NORML NORML		
Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance	scalar ppm ppm scalar scalar scalar	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual	NONE >50 >20 >0.2 NONE NONE NONE NORML	NONE 2 1 NEG NONE NONE NONE NORML		
Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor	scalar ppm ppm scalar scalar scalar scalar	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual	NONE >50 >20 >0.2 NONE NONE NONE NORML NORML	NONE 2 1 NEG NONE NONE NONE NORML NORML		
Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar ppm ppm scalar scalar scalar scalar scalar scalar	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	NONE >50 >20 >0.2 NONE NONE NONE NORML NORML	NONE 2 1 NEG NONE NONE NORE NORML NEG		
Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar ppm ppm scalar scalar scalar scalar scalar scalar	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	NONE >50 >20 >0.2 NONE NONE NONE NORML NORML	NONE 2 1 NEG NONE NONE NORML NORML NEG 0		
Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar ppm scalar scalar scalar scalar scalar scalar scalar ppm	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE >50 >20 >0.2 NONE NONE NONE NORML NORML	NONE 2 1 NEG NONE NONE NORML NORML NEG 0 195 8 7		
Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE >50 >20 >0.2 NONE NONE NONE NORML NORML	NONE 2 1 NEG NONE NONE NORML NORML NEG 0 195 8 7 3		
Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Boron Barium Molybdenum Manganese	scalar ppm scalar scalar scalar scalar scalar scalar ppm ppm	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE >50 >20 >0.2 NONE NONE NONE NORML NORML	NONE 2 1 NEG NONE NONE NORML NORML NEG 0 195 8 7 3 29		
Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Sand/Dirt Appearance Odor Emulsified Water Sodium Sodium Boron Barium Molybdenum Manganese Magnesium	scalar ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE >50 >20 >0.2 NONE NONE NONE NORML NORML	NONE 2 1 NEG NONE NONE NONE NORML NEG 0 195 8 7 3 29 91		
Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Boron Barium Molybdenum Manganese	scalar ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE >50 >20 >0.2 NONE NONE NONE NORML NORML	NONE 2 1 NEG NONE NONE NORML NORML NEG 0 195 8 7 3 29		

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Sulfur

Visc @ 40°C

ppm

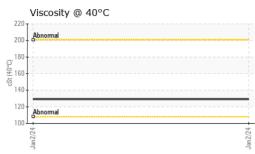
cSt

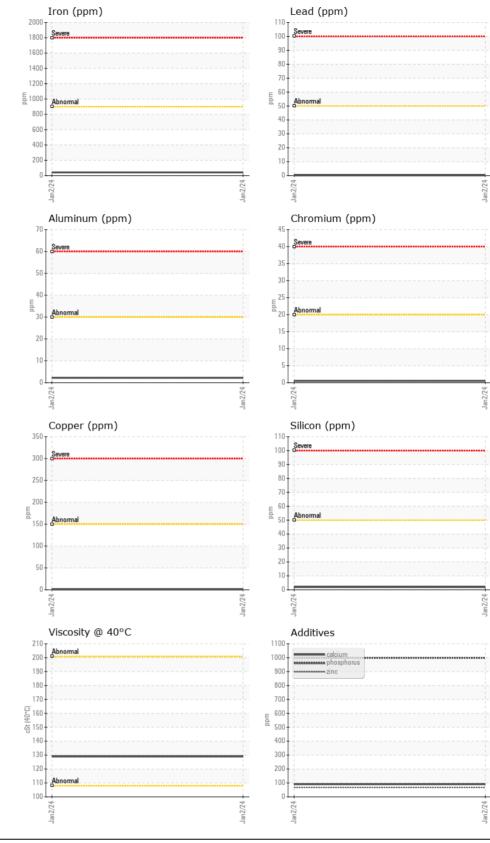
ASTM D5185m ASTM D445

Contact/Location: HUGH DOBBS - VOLVO8247

21651

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COWIN EQUIPMENT COMPANY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Recieved : 08 Jan 2024 7950 PITTMAN AVE : VCP430862 Lab Number : 09 Jan 2024 PENSACOLA, FL : 06054365 Diagnosed Unique Number : 10820314 : Wes Davis US 32534 Diagnostician Test Package : MOB 1 Contact: HUGH DOBBS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. HDOBBS@COWIN.COM * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (850)479-3004 F: (850)474-1602 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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