

WEAR CONTAMINATION FLUID CONDITION

ABNORMAL NORMAL ATTENTION



VOLVO A45G 752045 - A45G

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		VCP442649		
	Sample Date		Client Info		08 Jan 2024		
	Machine Age	hrs	Client Info		565		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
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WEAR	Iron	ppm	ASTM D5185m		24		
The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		1		
	Nickel	ppm	ASTM D5185m	>2	4		
	Titanium	ppm	ASTM D5185m	-	<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		2		
	Lead	ppm	ASTM D5185m	>40	4		
	Copper	ppm	ASTM D5185m		<u>403</u>		
	Tin	ppm	ASTM D5185m	>15	5		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	27		
	Potassium	ppm	ASTM D5185m	>20	1		
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>6.0	0.2		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	9.3		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185m		3		
	Boron	ppm	ASTM D5185m	2.5	40		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		<1		
	Molybdenum	ppm	ASTM D5185m		82		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium	ppm	ASTM D5185m		13		
	Calcium	ppm	ASTM D5185m		2009		
	Phosphorus	ppm	ASTM D5185m		969		
	Zinc	ppm		1223	1151		
	Sulfur	ppm	ASTM D5185m		3654		
	Oxidation	Abs/.1mm	*ASTM D7414		13.9		
	Base Number (BN)				5.7		
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Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: VCP442649 : 06056459

: 10822408

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 10 Jan 2024

: 12 Jan 2024 Diagnosed Diagnostician : Jonathan Hester

Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN) 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)

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