

VOLVO A45G 353323

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
HEOOMINENDATION	Sample Number	OOW	Client Info	LITTIO7 COTT	VCP435533	VCP386696	
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		06 Jan 2024	30 Aug 2023	
	Machine Age	hrs	Client Info		1771	1291	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ATTENTION		
WEAR	Iron	ppm	ASTM D5185m	>100	8	12	
	Chromium	ppm	ASTM D5185m	>20	0	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>2	1	2	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m	>25	<1	2	
	Lead	ppm	ASTM D5185m	>40	<1	0	
	Copper	ppm	ASTM D5185m	>330	11	52	
	Tin	ppm	ASTM D5185m	>15	1	2	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	11	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0	<1	
	Fuel		WC Method	>6.0	<1.0	0.2	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.2	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	6.6	7.6	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	22.4	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
ELLUD CONDITION	Sodium	nnm	ASTM D5185m		2	3	
FLUID CONDITION	Boron	ppm	ASTM D5185m	2.5	49	42	
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		0	0	
	Molybdenum	ppm	ASTM D5185m		51	53	
	Manganese	ppm	ASTM D5185m	0.7	<1	<1	
	Magnesium	ppm	ASTM D5185m		484	508	
	Calcium	ppm	ASTM D5185m		1635	1812	
		ppm	ASTM D5185m			967	
	Phosphorus	ppm			929		
	Zinc	ppm	ASTM D5185m		1100	1186	
	Sulfur Oxidation	ppm Abo/1mm	ASTM D5185m		2898	3695	
	Base Number (BN)	Abs/.1mm	*ASTM D7414		19.6	19.4 9.0	
	Visc @ 100°C	iliy KUT/g	49 LIVI D5030	15.0	10.0	9.0 ▲ 12.1	





Certificate L2367

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

: 06056462

: VCP435533 : 10822411

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 10 Jan 2024 Diagnosed : 11 Jan 2024

Diagnostician : Don Baldridge

Test Package : MOB 1 (Additional Tests: 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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