**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL NORMAL ATTENTION** 

[42313]

**VOLVO A45G 752155** 

Diesel Engine

VOLVO ULTRA DIESEL ENGIN	E OIL 15W4	U VD	5-3 ( C	IAL)			
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		VCP439859		
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		20 Jun 2024		
	Machine Age	hrs	Client Info		1121		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ATTENTION		
WEAR	Iron	ppm	ASTM D5185m	>100	16		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1		
	Nickel	ppm	ASTM D5185m		3		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>2	<1		
	Aluminum	ppm	ASTM D5185m		2		
	Lead	ppm	ASTM D5185m		5		
	Copper	ppm	ASTM D5185m		211		
	Tin	ppm	ASTM D5185m		3		
	Vanadium		ASTM D5185m	210	ა <1		
	White Metal	ppm scalar	*Visual	NONE	NONE		
	Yellow Metal		*Visual	NONE	NONE		
	Tellow Metal	scalar	Visuai	NONE	INOINE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	11		
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3		
	Fuel	%	ASTM D3524	>6.0	0.4		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.4		
	Nitration	Abs/cm	*ASTM D7624	>20	8.9		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.9		
	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		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3		
	Boron	ppm	ASTM D5185m	2.5	27		
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		
	Molybdenum	ppm	ASTM D5185m		49		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium	ppm	ASTM D5185m		478		
	Calcium	ppm	ASTM D5185m	2057	1960		
	Phosphorus	ppm	ASTM D5185m		1002		
	Zinc	ppm	ASTM D5185m		1208		
	Sulfur	ppm	ASTM D5185m		3405		
	Oxidation	Abs/.1mm	*ASTM D7414		20.6		
	Base Number (BN)		ASTM D2896		8.2		
	Visc @ 100°C	cSt	ASTM D2030		12.2		
	VISC W 100 C	COL	ASTIVI D443	10.0	<u> </u>		





Certificate L2367

Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

: 06219041 Unique Number: 11097238

Received : VCP439859 **Tested** Diagnosed

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

: 27 Jun 2024

: 27 Jun 2024 - Don Baldridge Test Package : MOB 1 ( Additional Tests: FuelDilution, PercentFuel, TBN )

: 24 Jun 2024

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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.

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