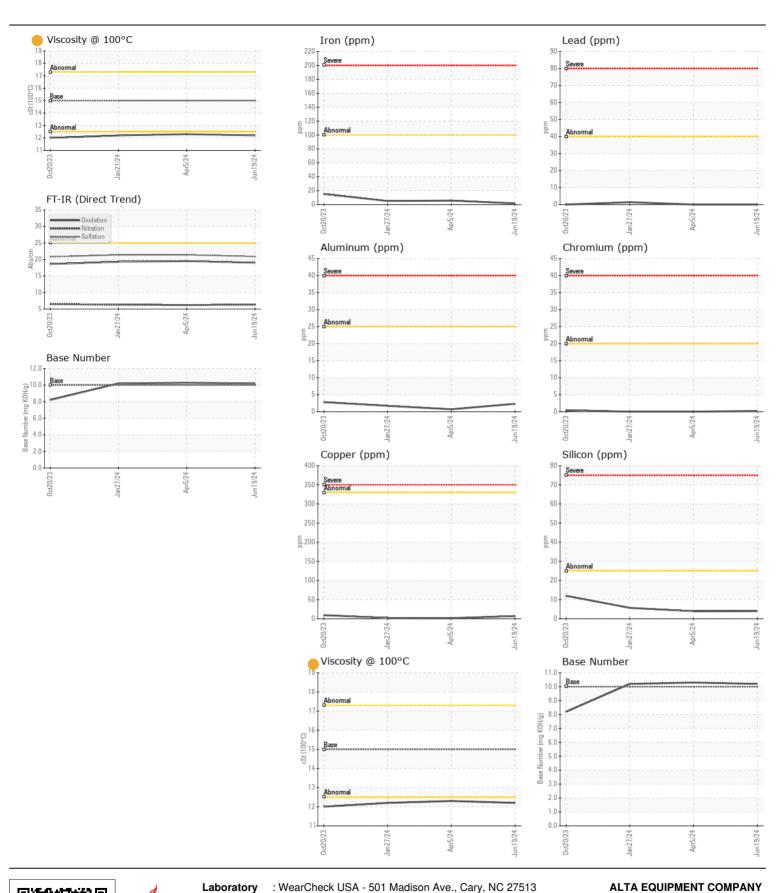


## Machine Id **VOLVO A45G 353418**

Component Diesel Engine

	Task	11044	Madla1	Line St./Aile	(	I Bakannia	I liate en o
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		VCP450512	VCP438444	VCP438448
	Sample Date	bro	Client Info		19 Jun 2024	05 Apr 2024	27 Jan 2024
	Machine Age	hrs	Client Info		2476	1960	1472
	Oil Age	hrs	Client Info		0	0	0
	Filter Age Oil Changed	hrs	Client Info		Ober med		
	-		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed ATTENTION	Changed
	Sample Status				ATTENTION	ATTENTION	ATTENTIO
WEAR	Iron	ppm	ASTM D5185m	>100	2	6	5
	Chromium	ppm	ASTM D5185m	>20	<1	0	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>25	2	<1	2
	Lead	ppm	ASTM D5185m		0	0	1
	Copper	ppm	ASTM D5185m		7	2	2
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	4	6
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		1	0	2
	Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	6.3	6.2	6.3
	Sulfation	Abs/.1mm	*ASTM D7415		20.9	21.4	21.4
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	2	2
	Boron	ppm	ASTM D5185m	2.5	46	- 55	54
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	0
	Molybdenum	ppm	ASTM D5185m		40	39	44
	Manganese	ppm	ASTM D5185m	0.0	0	<1	<1
	Magnesium	ppm	ASTM D5185m		491	494	498
	Calcium	ppm	ASTM D5185m		1640	1649	1574
	Phosphorus	ppm	ASTM D5185m		864	944	966
	Zinc	ppm	ASTM D5185m		1124	1098	1105
	Sulfur	ppm	ASTM D5185m		2785	3495	2970
	Oxidation	Abs/.1mm	*ASTM D7414		19.0	19.5	19.3
	Base Number (BN)				10.2	10.3	10.2
	Visc @ 100°C	cSt	ASTM D445		12.2	12.3	12.2





Certificate L2367

Laboratory Sample No. Unique Number : 11098969

Lab Number : 06220772

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : VCP450512

Received **Tested** Diagnosed

: 26 Jun 2024 : 27 Jun 2024

: 27 Jun 2024 - Jonathan Hester

5151 DR MARTIN LUTHER KING BLVD FORT MYERS, FL US 33905

Test Package : MOB 1 ( Additional Tests: TBN ) Contact: TODD LARK To discuss this sample report, contact Customer Service at 1-800-237-1369. tlark@altaequipfl.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T:

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

F: (239)481-3302