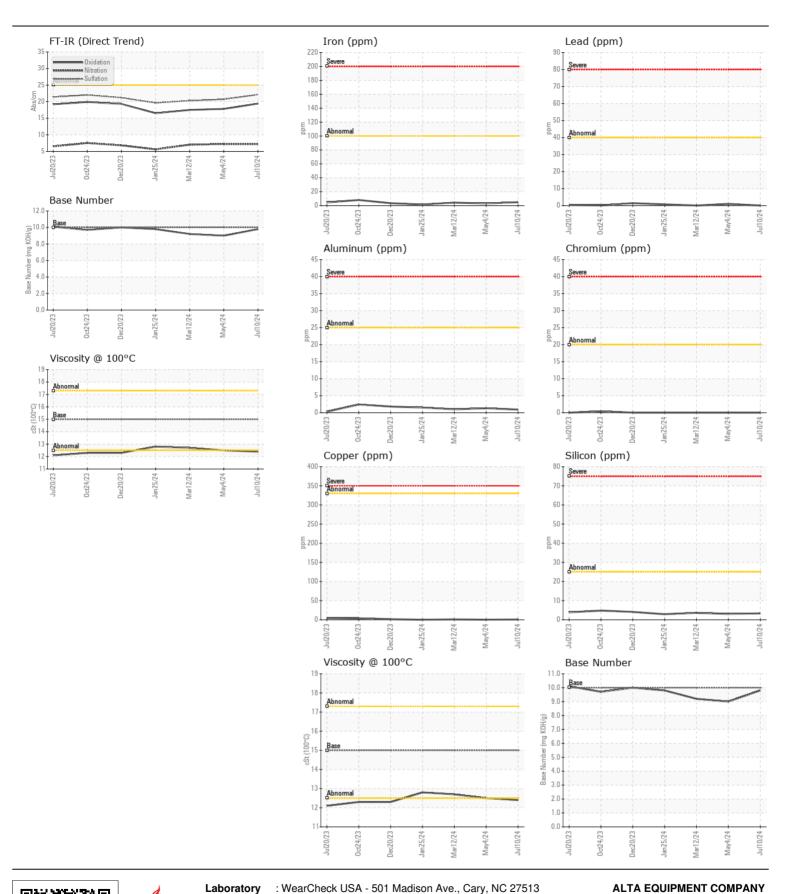


## Machine Id **VOLVO A45G 353251**

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		VCP449691	VCP455494	VCP445834
	Sample Date		Client Info		10 Jul 2024	04 May 2024	12 Mar 202
	Machine Age	hrs	Client Info		4438	3988	3625
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>100	5	3	4
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	0	0	0
	Nickel	ppm	ASTM D5185m	>2	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>25	<1	1	1
	Lead	ppm	ASTM D5185m		0	1	0
	Copper	ppm	ASTM D5185m	>330	<1	<1	<1
	Tin	ppm	ASTM D5185m		0	1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	3	3	4
	Potassium	ppm	ASTM D5185m		0	2	0
There is no indication of any contamination in the oil.	Fuel	1-1-	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	7.2	7.2	7.0
	Sulfation	Abs/.1mm	*ASTM D7415		22.1	20.7	20.3
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	<b>Emulsified Water</b>		*Visual	>0.2	NEG	NEG	NEG
LUID CONDITION	Sodium	ppm	ASTM D5185m		3	2	2
	Boron	ppm	ASTM D5185m	2.5	36	46	27
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		39	42	48
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		503	524	654
	Calcium	ppm	ASTM D5185m		1702	1614	1354
	Phosphorus	ppm	ASTM D5185m		920	931	923
	Zinc	ppm	ASTM D5185m		1052	1100	1096
	Sulfur	ppm	ASTM D5185m		3236	3452	3206
	Oxidation	Abs/.1mm	*ASTM D7414		19.4	17.8	17.5
	Base Number (BN)		ASTM D2896		9.8	9.0	9.2
		THU INVITA	TO LIVI DEUJU	10	J.U	0.0	0.2





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : VCP449691 Lab Number : 06235442

Received **Tested** Unique Number : 11124276 Test Package : MOB 1 ( Additional Tests: TBN )

Diagnosed

: 15 Jul 2024 : 15 Jul 2024

: 15 Jul 2024 - Wes Davis

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

> Contact: TODD LARK tlark@altaequipfl.com T:

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)

F: (239)481-3302

Contact/Location: TODD LARK - VOLVO0090