

## [SPM659962-10] VOLVO A45G 752124 Component Diesel Engine

{not provided} (--- GAL)

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## RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR	
The copper level is abnormal. In the metals, suspect copper due to sourc core). All other metal levels are typic in.	es other than wear (i.e. cooling

001		1
CUN	INATION	

**FLUID CONDITION** 

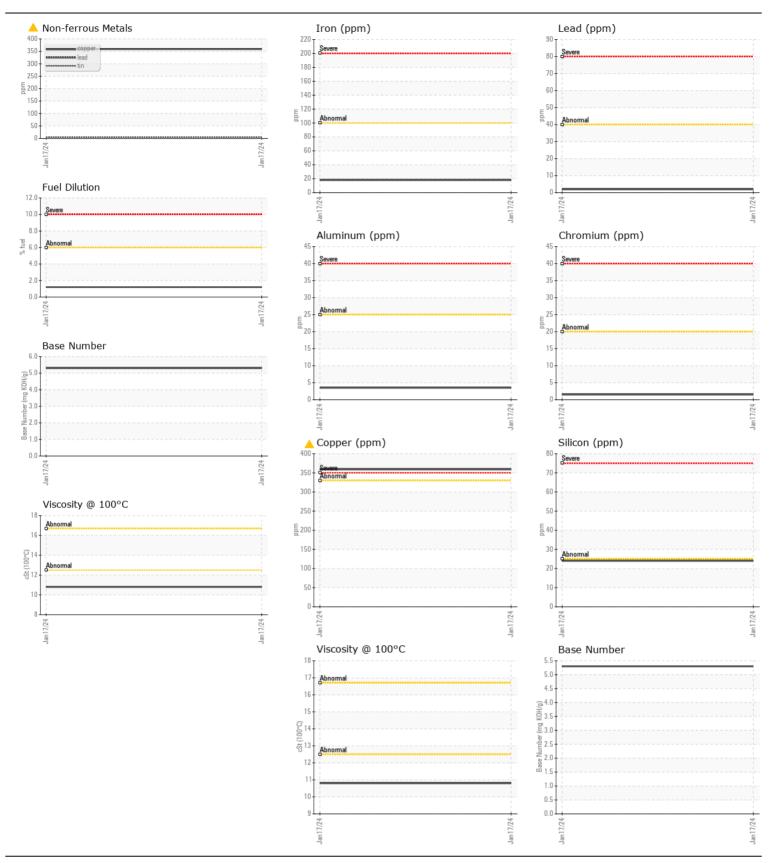
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Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP421350		
Sample Date		Client Info		17 Jan 2024		
Machine Age	hrs	Client Info		579		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Filter Changed		Client Info		Changed		
Sample Status				ABNORMAL		
Iron	ppm	ASTM D5185m	>100	18		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>2	4		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>25	4		
Lead	ppm	ASTM D5185m	>40	2		
Copper	ppm	ASTM D5185m	>330	<b>A</b> 359		
Tin	ppm	ASTM D5185m	>15	5		
Vanadium	ppm	ASTM D5185m		<1		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Ciliana			05	04		
Silicon	ppm	ASTM D5185m	>25	24 4		
Potassium	ppm	ASTM D5185m	>20	-		
Fuel	%	ASTM D3524	>6.0	1.2		
Water		WC Method	>0.2	NEG		
Glycol	0/	WC Method	0	NEG		
Soot %	%	*ASTM D7844	>3	0.3		
Nitration	Abs/cm	*ASTM D7624	>20	9.9		
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6		
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		
Sodium	ppm	ASTM D5185m		3		
Boron	ppm	ASTM D5185m		26		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		82		
Manganese	ppm	ASTM D5185m		2		
Magnesium	ppm	ASTM D5185m		_ 51		
Calcium	ppm	ASTM D5185m		2059		
Phosphorus	ppm	ASTM D5185m		1045		
Zinc	ppm	ASTM D5185m		1176		
Sulfur	ppm	ASTM D5185m		3705		
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5		
Base Number (BN)	mg KOH/g	ASTM D2896	- 20	5.3		
Visc @ 100°C	cSt	ASTM D2000		10.8		
	001	A0 HW D440		10.0		

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The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



ALTA EQUIPMENT COMPANY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Recieved : 31 Jan 2024 5151 DR MARTIN LUTHER KING BLVD : VCP421350 Lab Number : 06075482 Diagnosed : 02 Feb 2024 FORT MYERS, FL : 10857573 US 33905 **Unique Number** Diagnostician : Jonathan Hester Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: TODD LARK Certificate L2367 tlark@altaequipfl.com 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. Т: F: (239)481-3302 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: TODD LARK - VOLVO0090

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