

Machine Id

VOLVO A45G 752366

Diesel Engine

VÕLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

Oil and filter change at the time of sampling has been noted. Resam at the next service interval to monitor.

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	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		VCP450506		
nple	Sample Date		Client Info		19 Jun 2024		
	Machine Age	hrs	Client Info		487		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
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	Iron	ppm	ASTM D5185m	>100	23		
	Chromium	ppm	ASTM D5185m	>20	1		
ar	Nickel	ppm	ASTM D5185m	>2	2		
a	Titanium	ppm	ASTM D5185m		0		
g	Silver	ppm	ASTM D5185m	>2	0		
	Aluminum	ppm	ASTM D5185m	>25	3		
	Lead	ppm	ASTM D5185m	>40	<1		
	Copper	ppm	ASTM D5185m	>330	472		
	Tin	ppm	ASTM D5185m	>15	4		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Silicon	ppm	ASTM D5185m	>25	26		
	Potassium	ppm	ASTM D5185m	>20	3		
n	Fuel	%	ASTM D3524	>6.0	0.2		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	9.4		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1		
	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		2		
	Boron	ppm	ASTM D5185m	2.5	47		
	Barium	ppm	ASTM D5185m	0.0	0		
	Molybdenum	ppm	ASTM D5185m	0.7	88		
	Manganese	ppm	ASTM D5185m	0.0	<1		
	Magnesium	ppm	ASTM D5185m	256	47		
	Calcium	ppm	ASTM D5185m	2057	2200		
	Phosphorus	ppm	ASTM D5185m	935	948		
	7:	ppm	ASTM D5185m	1223	1242		
	Zinc	1-1-					
	Sulfur	ppm	ASTM D5185m	4079	3872		
			ASTM D5185m *ASTM D7414	4079 >25	3872 13.8		
	Sulfur	ppm	*ASTM D7414				

WEAR

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.

CONTAMINATION

RECOMMENDATION

Fuel content negligible. There is no indication of any contamination in the oil.

FLUID CONDITION

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



ALTA EQUIPMENT COMPANY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 5151 DR MARTIN LUTHER KING BLVD : VCP450506 : 26 Jun 2024 Lab Number : 06220771 Tested : 28 Jun 2024 FORT MYERS, FL : 28 Jun 2024 - Jonathan Hester US 33905 Unique Number : 11098968 Diagnosed 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. T: 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 Page 2 of 2