

OIL ANALYSIS REPORT

[WASTE MANAGEMENT]

VOLVO A35G 352013

Diesel Engine

CASTROL 15W40 (--- GAL)

RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

WEAR	

Valve wear is indicated.

CONTAMINATION

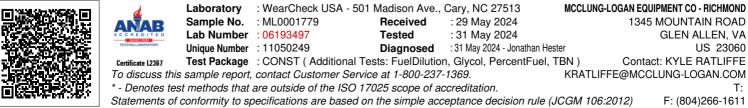
Sodium and/or potassium levels are high. Fuel content negligible.

FLUID CONDITION	
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The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ML0001779		
Sample Date		Client Info		21 May 2024		
Machine Age	hrs	Client Info		7930		
Oil Age	hrs	Client Info		400		
Filter Age	hrs	Client Info		400		
Oil Changed		Client Info		Not Changd		
Filter Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
Iron	ppm	ASTM D5185m	>100	11		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>2	▲ 11 0		
Titanium	ppm	ASTM D5185m	0	0		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>25	7		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	10		
Tin	ppm	ASTM D5185m	>15	0		
Vanadium	ppm	ASTM D5185m		<1		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Cilicon			. 05	c		
Silicon	ppm	ASTM D5185m	>25 >20	6		
Potassium	ppm	ASTM D5185m		<1		
Fuel	%	ASTM D3524	>6.0	0.9		
Water	0/	WC Method	>0.2	NEG		
Glycol	%	*ASTM D2982	0	NEG		
Soot %	%	*ASTM D7844	>3	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	7.9		
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7		
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	>406	173		
Boron	ppm	ASTM D5185m		104		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		63		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		1123		
Calcium	ppm	ASTM D5185m		1067		
Phosphorus	ppm	ASTM D5185m		1089		
Zinc	ppm	ASTM D5185m		1273		
Sulfur	ppm	ASTM D5185m		3980		
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1		
Base Number (BN)	mg KOH/g	ASTM D2896		8.8		
Visc @ 100°C	cSt	ASTM D445	14.4	12.1		





Contact/Location: KYLE RATLIFFE - VOLVO8882