

Area

[W02008336] VOLVO A30F 82256 **Diesel Engine**

WEAR NORMAL CONTAMINATION ABNORMAL **FLUID CONDITION ABNORMAL**

{not provided} (11 GAL)

RECOMMENDATION

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: W02008336)

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All component wear rates are normal.

CONTAMINATION

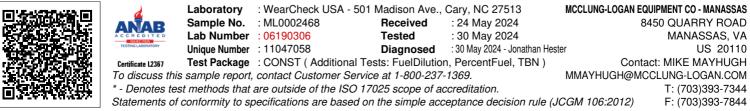
There is a moderate amount of fuel present in the oil.

FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ML0002468		
Sample Date		Client Info		21 May 2024		
Machine Age	hrs	Client Info		14598		
Oil Age	hrs	Client Info		300		
Filter Age	hrs	Client Info		300		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		Changed		
Sample Status				ABNORMAL		
				-		
Iron	ppm	ASTM D5185m	>200	12		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>10	1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>30	5		
Lead	ppm	ASTM D5185m	>40	1		
Copper	ppm	ASTM D5185m	>20	4		
Tin	ppm	ASTM D5185m	>20	2		
Vanadium	ppm	ASTM D5185m		<1		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>20	10		
Potassium	ppm	ASTM D5185m	>20	2		
Fuel	%	ASTM D3524	>3.0	4 .0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
Soot %	%	*ASTM D7844	>3	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	7.8		
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0		
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		48		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		45		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		513		
Calcium	ppm	ASTM D5185m		1684		
Phosphorus	ppm	ASTM D5185m		716		
Zinc	ppm	ASTM D5185m		949		
Sulfur	ppm	ASTM D5185m		2864		
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.6		
Base Number (BN)	mg KOH/g	ASTM D2896		8.9		
Visc @ 100°C	cSt	ASTM D445		▲ 11.5 J		
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Submitted By: DARRELL ANDES Page 2 of 2