

Area

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION ATTENTION



RECOMMENDATION

[W02008480] Machine Id VOLVO A30F 82318

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (11 GAL)

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: W02008480)

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All component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the oil.

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

	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		ML0002365	ML0001405	
le	Sample Date		Client Info		01 Jul 2024	29 Apr 2024	
	Machine Age	hrs	Client Info		13887	13496	
	Oil Age	hrs	Client Info		391	500	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ATTENTION	ATTENTION	
	Iron	ppm	ASTM D5185m	>200	3	8	
	Chromium	ppm	ASTM D5185m	>20	0	0	
	Nickel	ppm	ASTM D5185m	>10	0	0	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m	>30	2	3	
	Lead	ppm	ASTM D5185m	>40	0	<1	
	Copper	ppm	ASTM D5185m	>20	0	1	
	Tin	ppm	ASTM D5185m	>20	<1	<1	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Silicon	ppm	ASTM D5185m	>20	4	5	
	Potassium	ppm	ASTM D5185m	>20	<1	4	
	Fuel		WC Method	>3.0	<1.0	<u> </u>	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.1	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	7.4	7.6	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	20.8	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
	Sodium	000	ASTM D5185m	>158	3	3	
		ppm			36	42	
	Boron	ppm	ASTM D5185m				
	Barium Molybdenum	ppm	ASTM D5185m	10	0 38	0 48	
	•	ppm	ASTM D5185m ASTM D5185m	100			
	Manganese Magnesium	ppm	ASTM D5185m	450	<1 548	<1 491	
	Calcium	ppm			548 1535	491 1779	
		ppm	ASTM D5185m	3000			
	Phosphorus	ppm	ASTM D5185m	1150	902	782	
	Zinc	ppm	ASTM D5185m	1350	1020	881	
	Sulfur	ppm	ASTM D5185m	4250	3244	2989	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.1	19.8	
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.5	9.2	
	Visc @ 100°C	cSt	ASTM D445	14.4	11.7	11.8	



