

Component Diesel Fluid

## Machine Id VOLVO A45G 13387 (S/N 353450)

Diesel Engine

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

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		ASC0009491		
	Sample Date		Client Info		28 Jun 2024		
	Machine Age	hrs	Client Info		4357		
	Oil Age	hrs	Client Info		4357		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR Exhaust valve wear is indicated.	Iron	ppm	ASTM D5185m		42		
	Chromium	ppm	ASTM D5185m	>20	2		
	Nickel	ppm	ASTM D5185m	>2	🔺 11		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>2	<1		
	Aluminum	ppm	ASTM D5185m	>25	6		
	Lead	ppm	ASTM D5185m	>40	1		
	Copper	ppm	ASTM D5185m	>330	10		
	Tin	ppm	ASTM D5185m	>15	2		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	-	18		
Light fuel dilution occurring.	Potassium	ppm	ASTM D5185m		3		
	Fuel	%	ASTM D3524	>6.0	<b>3</b> .0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.9		
	Nitration	Abs/cm	*ASTM D7624	>20	8.9		
	Sulfation	Abs/.1mm	*ASTM D7415		19.8		
	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		
FLUID CONDITION	Sodium	nnm	ASTM D5185m		0		
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.	Boron	ppm	ASTM D5185m	25	2		
	Barium	ppm	ASTM D5185m		<u>د</u> <1		
	Molybdenum	ppm	ASTM D5185m		63		
	Manganese	ppm ppm	ASTM D5185m		03 <1		
	Magnesium		ASTM D5185m		<1 941		
	Calcium	ppm	ASTM D5185m		1108		
	Phosphorus	ppm	ASTM D5185m		1114		
	Zinc	ppm	ASTM D5185m		1250		
	Sulfur	ppm					
		ppm	ASTM D5185m		2765		
	Oxidation	ADS/.IMM	*ASTM D7414	>20	14.4		

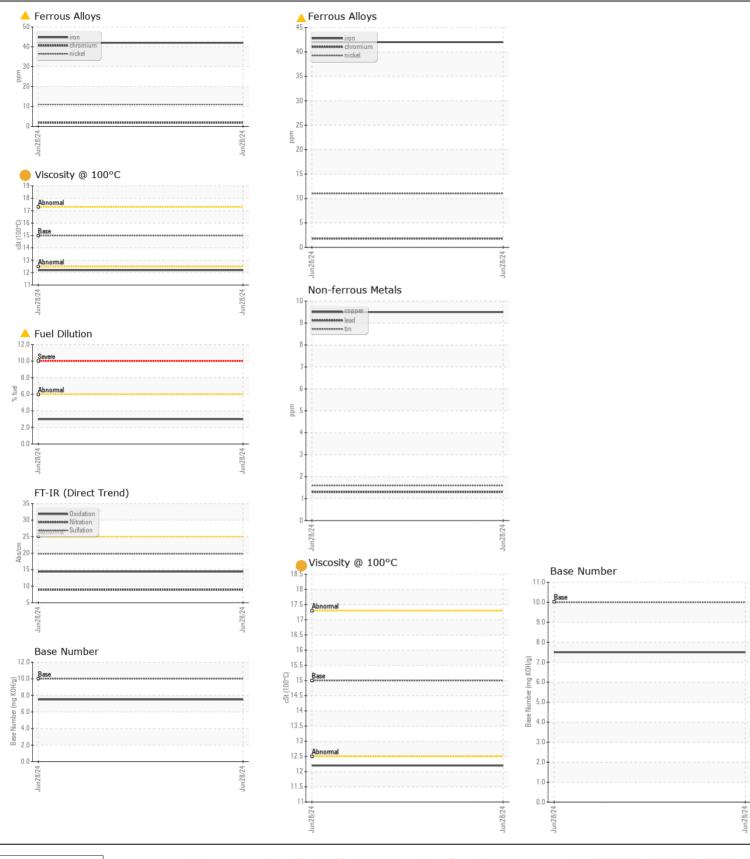
7.5

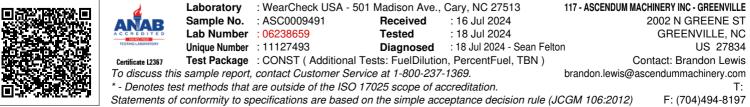
12.2

Base Number (BN) mg KOH/g ASTM D2896 10

ASTM D445 15.0

Visc @ 100°C cSt





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