МОВ	VOLVO
Ι	OIL ANALYSIS REPORT



## VOLVO EC220EL 315042

Component Diesel Engine

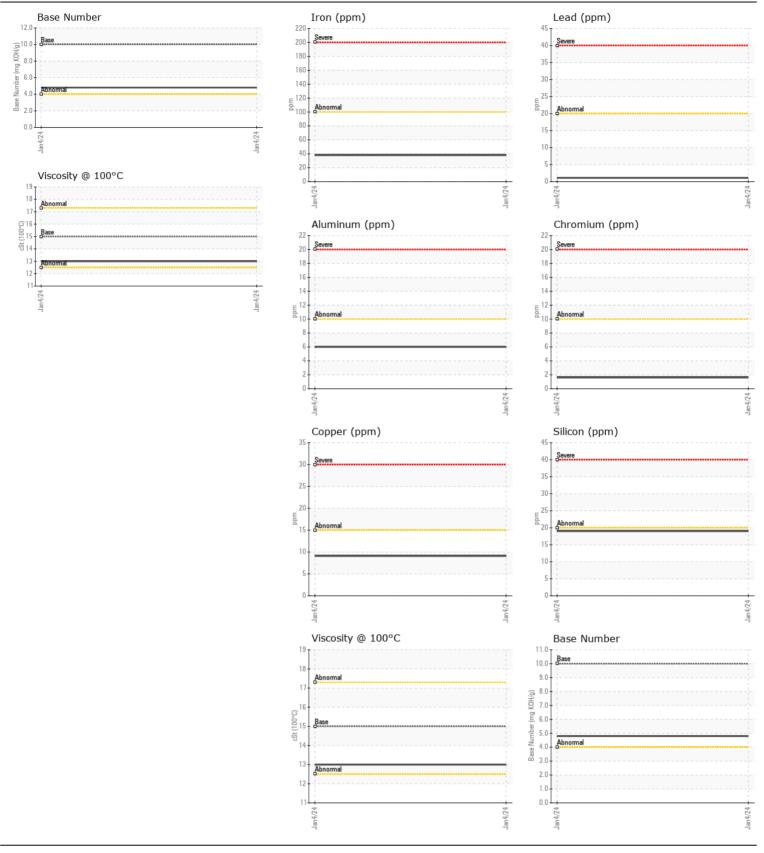
## VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

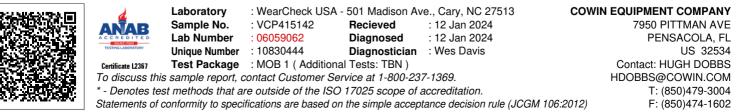
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		VCP415142		
Resample at the next service interval to monitor.	Sample Date		Client Info		04 Jan 2024		
	Machine Age	hrs	Client Info		550		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	<100	38		
	Chromium	ppm	ASTM D5185m		2		
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		7		
	Titanium	ppm	ASTM D5185m	210	، <1		
	Silver	ppm	ASTM D5185m	>2	<1		
	Aluminum	ppm	ASTM D5185m		6		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m		9		
	Tin	ppm	ASTM D5185m		2		
	Vanadium	ppm	ASTM D5185m	10	_ <1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		19		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		3		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.1	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	7.3		
	Sulfation	Abs/.1mm	*ASTM D7415		19.1		
	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	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1		
	Boron	ppm	ASTM D5185m	2.5	0		
The BN result indicates that there is suitable alkalinity remaining in the	Barium	ppm	ASTM D5185m		<1		
oil. The condition of the oil is suitable for further service.	Molybdenum	ppm	ASTM D5185m	0.7	3		
	Manganese	ppm	ASTM D5185m	0.0	4		
	Magnesium	ppm	ASTM D5185m	256	79		
	Calcium	ppm	ASTM D5185m	2057	2289		
	Phosphorus	ppm	ASTM D5185m	935	933		
	Zinc	ppm	ASTM D5185m	1223	1167		
	Sulfur	ppm	ASTM D5185m	4079	3971		
	Oxidation	Abs/.1mm	*ASTM D7414		10.6		
	Base Number (BN)	mg KOH/g			4.8		

Visc @ 100°C cSt

ASTM D445 15.0

13.0





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Contact/Location: HUGH DOBBS - VOLVO8247