MOB	VOLVO
Ι	OIL ANALYSIS REPORT



## [SPM661533] VOLVO EC220 315909 Component Diesel Engine

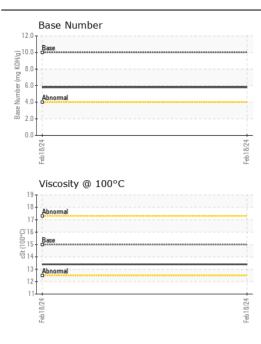
## VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

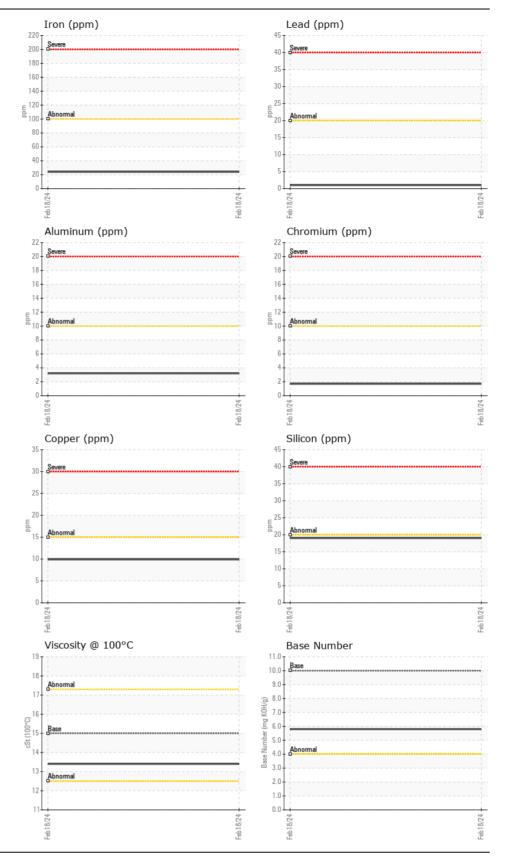
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		VCP445689		
Resample at the next service interval to monitor.	Sample Date		Client Info		18 Feb 2024		
	Machine Age	hrs	Client Info		810		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAD	Iran		ASTM D5185m	. 100	04		
WEAR	Iron	ppm			24		
Metal levels are typical for a new component breaking in.	Chromium Nickel	ppm	ASTM D5185m		2		
		ppm	ASTM D5185m	>10	6		
	Titanium	ppm	ASTM D5185m	0	<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		3		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m		10		
	Tin	ppm	ASTM D5185m	>10	3		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	19		
	Potassium	ppm	ASTM D5185m	>20	4		
There is no indication of any contamination in the oil.	Fuel		WC Method	>6.0	<1.0		
	Water		WC Method	>0.1	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	7.9		
	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		*Visual	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2		
The PN regult indicates that there is quitable alkelinity remaining in the	Boron	ppm	ASTM D5185m	2.5	84		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	0.0	2		
	Molybdenum	ppm	ASTM D5185m	0.7	36		
	Manganese	ppm	ASTM D5185m	0.0	4		
	Magnesium	ppm	ASTM D5185m	256	144		
	Calcium	ppm	ASTM D5185m	2057	1945		
	Phosphorus	ppm	ASTM D5185m	935	885		
	Zinc	ppm	ASTM D5185m	1223	1092		
	Sulfur	ppm	ASTM D5185m	4079	3692		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.8		
	Base Number (BN)	mg KOH/g	ASTM D2896		5.8		
		oSt	ASTM D445	15.0	12.4		

Visc @ 100°C cSt

ASTM D445 15.0

13.4





ALTA EQUIPMENT COMPANY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : VCP445689 Received 5210 REESE ROAD : 27 Feb 2024 Lab Number : 06101440 Tested : 28 Feb 2024 DAVIE, FL Unique Number : 10899670 Diagnosed : 28 Feb 2024 - Wes Davis US 33314 Test Package : MOB 1 (Additional Tests: TBN) Contact: N. FACEY Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. nfacey@altaequipfl.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (954)581-4744 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (954)583-0318

Contact/Location: N. FACEY - VOLVO0095