

## [716767 HILLSBOROUGH]

## VOLVO EW160E 324250

## **Diesel Engine**

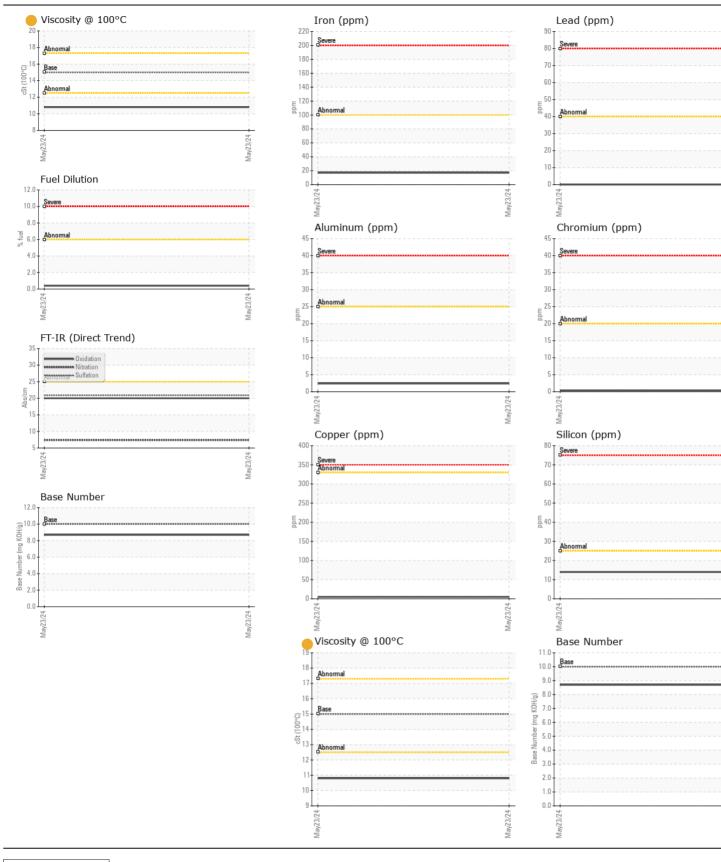
## VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

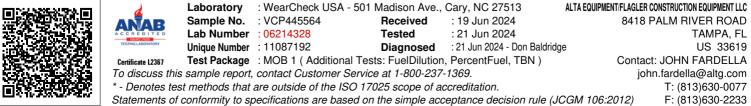
	UAL	<del>.</del> /					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		VCP445564		
	Sample Date		Client Info		23 May 2024		
	Machine Age	hrs	Client Info		1002		
	Oil Age	hrs	Client Info		500		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ATTENTION		
WEAR	Iron		ASTM D5185m	<100	17		
WEAN	Chromium	ppm ppm	ASTM D5185m		<1		
All component wear rates are normal.	Nickel		ASTM D5185m		4		
	Titanium	ppm ppm	ASTM D5185m	>2	0		
	Silver		ASTM D5185m	. 0	0		
	Aluminum	ppm	ASTM D5185m				
		ppm			2 0		
	Lead Copper	ppm	ASTM D5185m ASTM D5185m		5		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m	>15	0		
	White Metal	ppm scalar	*Visual	NONE	NONE		
	Yellow Metal		*Visual	NONE	NONE		
	reliow wiela	scalar	visuai	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	14		
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2		
	Fuel	%	ASTM D3524	>6.0	0.4		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	7.4		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9		
	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	ppm	ASTM D5185m		3		
	Boron	ppm	ASTM D5185m	2.5	24		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		<1		
	Molybdenum	ppm	ASTM D5185m		35		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		499		
	Calcium	ppm	ASTM D5185m		1553		
	Phosphorus	ppm	ASTM D5185m		897		
	Zinc	ppm	ASTM D5185m		1017		
	Sulfur	ppm	ASTM D5185m		3239		
	Oxidation	Abs/.1mm	*ASTM D5105111		20.0		
	Base Number (BN)			-	8.7		
	Dase Multiber (DIV)	ing KON/g	A0 HW D2030	10	0.7		

10.8

ASTM D445 15.0

Visc @ 100°C cSt





Contact/Location: JOHN FARDELLA - VOLVO0093