

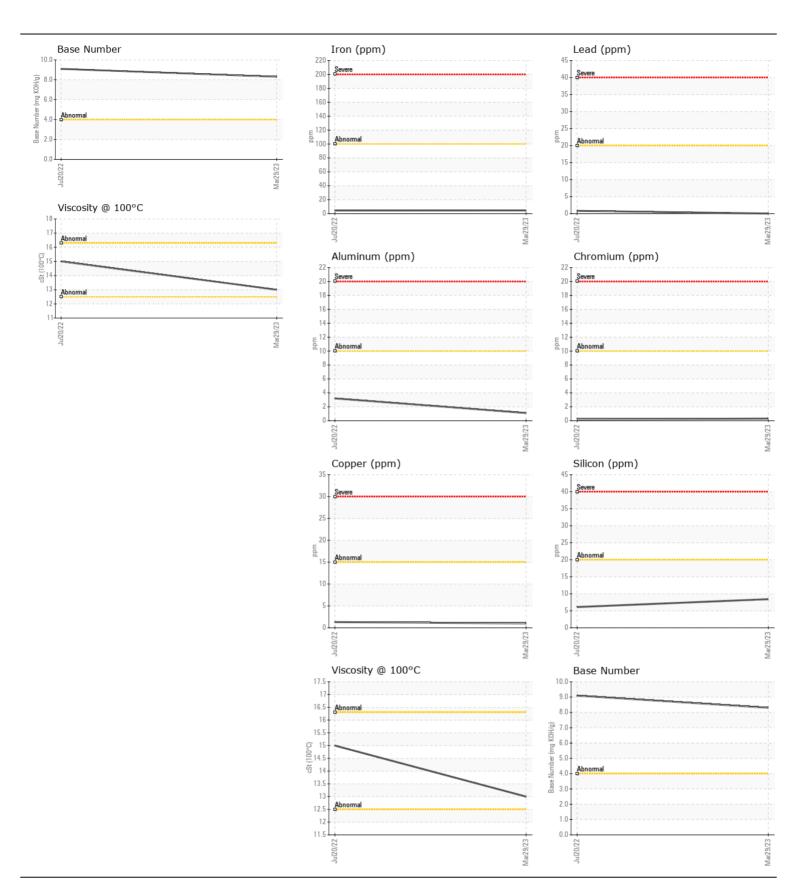
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL



[75] **VOLVO EC300EL 312525** Component Diesel Engine

MOBIL 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		VC527561	VC549440	
Resample at the next service interval to monitor.	Sample Date		Client Info		29 Mar 2023	20 Jul 2022	
	Machine Age	hrs	Client Info		1009	935	
	Oil Age	hrs	Client Info		156	235	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	4	4	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	<1	<1	
	Nickel	ppm	ASTM D5185m	>10	<1	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	>2	0	2	
	Aluminum	ppm	ASTM D5185m	>10	1	3	
	Lead	ppm	ASTM D5185m		0	<1	
	Copper	ppm	ASTM D5185m	>15	1	1	
	Tin	ppm	ASTM D5185m	>10	<1	<1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	8	6	
CONTAININATION	Potassium	ppm	ASTM D5185m		4	3	
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		<1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	> 0.1	NEG	NEG	
	Soot %	%	*ASTM D7844	~3	0.1	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	5.4	7.0	
	Sulfation	Abs/.1mm	*ASTM D7415		17.5	18.6	
	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		*Visual	>0.1	NEG	NEG	
<u></u>	Liliuisilleu watei	Scalai	Visuai	>0.1		NLG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>118	1	1	
	Boron	ppm	ASTM D5185m		42	32	
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	
	Molybdenum	ppm	ASTM D5185m		30	25	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		287	190	
	Calcium	ppm	ASTM D5185m		1661	2159	
	Phosphorus	ppm	ASTM D5185m		730	910	
	Zinc	ppm	ASTM D5185m		875	1077	
	Sulfur	ppm	ASTM D5185m		2404	4289	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	12.8	
	Base Number (BN)			. ==0	8.3	9.1	
	Visc @ 100°C	cSt	ASTM D445		13.0	15.0	
	1.00 @ 100 0	001	7.0.1WI D440		10.0	10.0	





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: VC527561 : 05818021 : 10426104

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 12 Apr 2023 : 13 Apr 2023 Diagnosed

Diagnostician : Wes Davis Test Package : MOB 1 (Additional Tests: TBN)

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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