



[SWA477490 MELDGAARD]

VOLVO EC350EL 314186

Component Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOOMMENDATION	Sample Number	0.0111	Client Info		VCP441145		VCP404552
Oil and filter change at the time of sampling has been noted. Resample	Sample Date		Client Info		09 Feb 2024	03 Oct 2023	28 Mar 2023
at the next service interval to monitor.	Machine Age	hrs	Client Info		2035	1490	984
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed	-	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	NORMAL	NORMAL
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WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	5	2	8
	Chromium	ppm	ASTM D5185m		<1	0	<1
	Nickel	ppm	ASTM D5185m	>10	<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		<1	1	1
	Lead	ppm	ASTM D5185m		<1	0	<1
	Copper	ppm	ASTM D5185m		5	11	41
	Tin	ppm	ASTM D5185m	>10	1	<1	2
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	5	3	7
CONTAINATION	Potassium	ppm	ASTM D5185m		2	<1	1
Fuel content negligible. There is no indication of any contamination in	Fuel	%	ASTM D3524	>6.0	0.5	<1.0	<1.0
the oil.	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	8.0	7.4	9.0
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	19.4	22.7
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	3	2
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron	ppm	ASTM D5185m	25	0	0	25
	Barium	ppm	ASTM D5185m		1	0	0
	Molybdenum	ppm	ASTM D5185m		60	55	37
	Manganese	ppm	ASTM D5185m		<1	<1	1
	Magnesium	ppm	ASTM D5185m		906	921	485
	Calcium	ppm	ASTM D5185m	2057	989	1116	1928
	Phosphorus	ppm	ASTM D5185m		954	1012	959
	Zinc	ppm	ASTM D5185m	1223	1187	1266	1173
	Sulfur	ppm	ASTM D5185m		3127	3030	4145
	Oxidation		*ASTM D7414		15.0	15.1	20.1

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

ASTM D445 15.0

Visc @ 100°C cSt

7.8

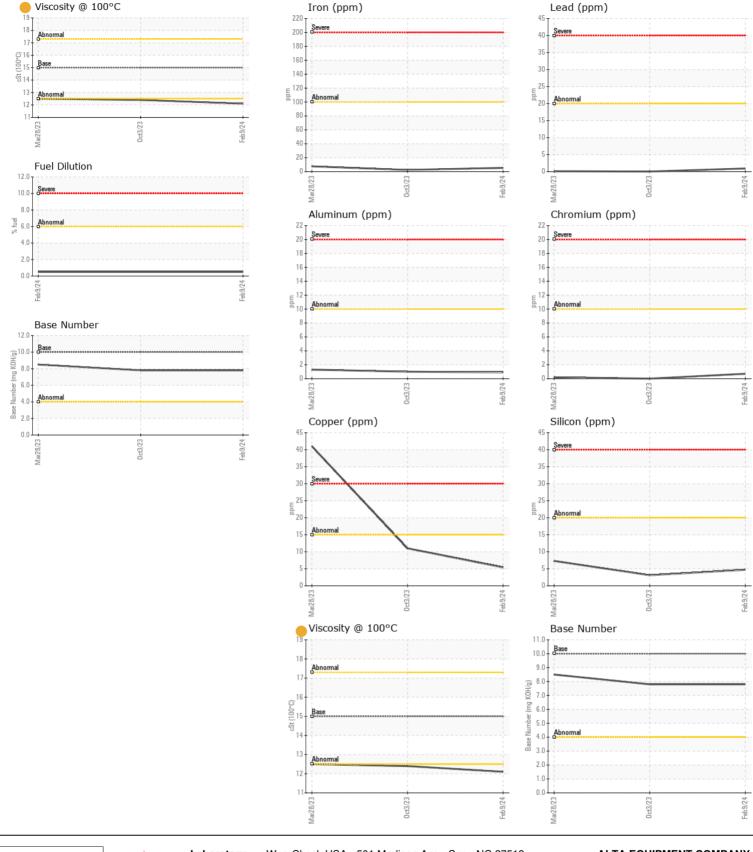
12.4

7.8

12.1

8.5

12.5



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