

[47847] Machine Id VOLVO EC350E 314512 Component Diesel Engine Fluid

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

VOLVO ULI NA DIESEL EINGINE OIL 15W40 VI	JJ-J (GAL	<u>-</u> /					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		VCP417909	VCP402651	VCP408251
	Sample Date		Client Info		17 Apr 2024	21 Nov 2023	21 Aug 2023
	Machine Age	hrs	Client Info		2041	1660	1179
	Oil Age	hrs	Client Info		500	500	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	ATTENTION	ATTENTION
WEAR	Iron	ppm	ASTM D5185m	>100	5	3	6
TEAL	Chromium	ppm	ASTM D5185m		<1	0	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m		2	0	0
	Lead	ppm	ASTM D5185m		- <1	0	1
	Copper	ppm	ASTM D5185m		11	11	71
	Tin	ppm	ASTM D5185m		1	<1	1
	Vanadium	ppm	ASTM D5185m	10	<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Ciliana			05	·····	 	10
	Silicon	ppm	ASTM D5185m		6	5 0	13
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185m		2	<1.0	0.4
				>6.0	<1.0 NEG		0.4 NEG
	Water Glycol		WC Method WC Method	>0.2		NEG NEG	NEG
	Soot %	%		. 0	NEG		
	Nitration		*ASTM D7844 *ASTM D7624		0.1 7.2	0.1	0.1
	Sulfation	Abs/cm Abs/.1mm	*ASTM D7624	>20 >30	21.3	6.9 20.7	9.0 22.3
	Silt		*Visual		NONE	20.7 NONE	NONE
		scalar		NONE			
	Debris Sand/Dirt	scalar	*Visual *Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar		NONE	NONE NORML	NONE	NONE
	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML	NORML NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NORME	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	0.5	1	2	3
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		56	56	19
	Barium	ppm	ASTM D5185m		2	0	0
	Molybdenum	ppm	ASTM D5185m		40	45	44
	Manganese	ppm		0.0	<1	<1	1
	Magnesium	ppm	ASTM D5185m		478	439	478
	Calcium	ppm	ASTM D5185m		1653	1777	1801
	Phosphorus	ppm	ASTM D5185m		953	958	906
	Zinc	ppm	ASTM D5185m		1099	1100	1131
	Sulfur	ppm	ASTM D5185m		3314	2831	3534
	Oxidation	Abs/.1mm	*ASTM D7414		19.7	18.3	20.6
	Base Number (BN)	mg KOH/g	ASTM D2896	10	9.4	9.0	8.4
		- 0+		4 - 0			

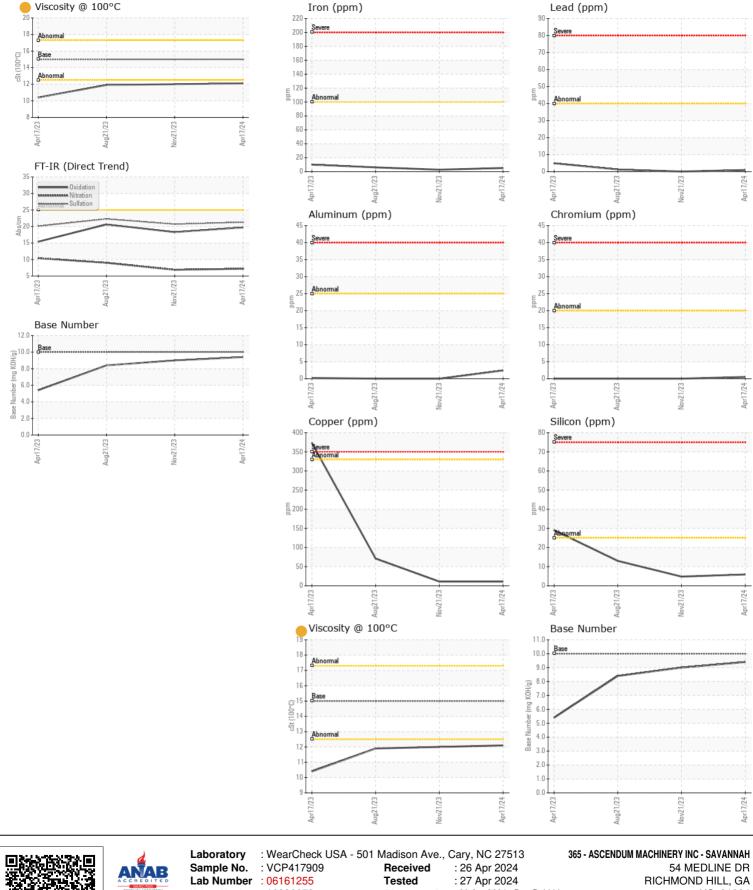
Visc @ 100°C cSt

ASTM D445 15.0

12.0

11.9

12.1



Unique Number : 10996678 Diagnosed : 29 Apr 2024 - Don Baldridge US 31324 Test Package : MOB 1 (Additional Tests: TBN) Contact: JESSE WILSON Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. jesse.wilson@ascendummachinery.com * - 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) F: (912)964-9515

Contact/Location: JESSE WILSON - VOLVO8531

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