

VOLVO EC210C 110262

Component Diesel Engine

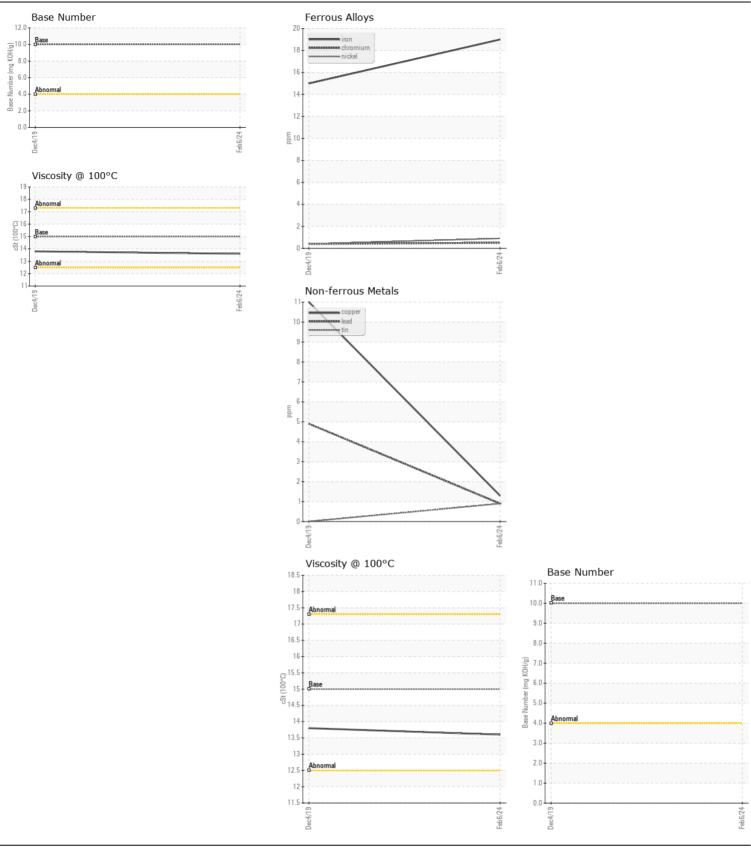
VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		ASC0003411	VCE237749	
	Sample Date		Client Info		06 Feb 2024	04 Dec 2019	
	Machine Age	hrs	Client Info		8533	6990	
	Oil Age	hrs	Client Info		8000	500	
	Filter Age	hrs	Client Info		8000	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	19	15	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	<1	<1	
	Nickel	ppm	ASTM D5185m		<1	<1	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m		2	4	
	Lead	ppm	ASTM D5185m		- <1	5	
	Copper	ppm	ASTM D5185m		1	11	
	Tin	ppm	ASTM D5185m		<1	0	
	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	6	7	
oon railina non	Potassium	ppm	ASTM D5185m		3	4	
There is no indication of any contamination in the oil.	Fuel	pp	WC Method		<1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	,	NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.9	0.5	
	Nitration	Abs/cm	*ASTM D7624		8.1	6.7	
	Sulfation	Abs/.1mm	*ASTM D7415		23.2	22.2	
	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	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	3	
	Boron	ppm	ASTM D5185m	2.5	37	43	
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		13	0	
	Molybdenum	ppm	ASTM D5185m		45	40	
	Manganese	ppm	ASTM D5185m		<1	1	
	Magnesium	ppm	ASTM D5185m		523	521	
	Calcium	ppm	ASTM D5185m		1628	1744	
	Phosphorus	ppm	ASTM D5185m		958	670	
	Zinc	ppm	ASTM D5185m		1102	850	
	Sulfur	ppm	ASTM D5185m		3098	1972	
	Oxidation	Abs/.1mm	*ASTM D310311		20.1	20.1	
	Base Number (BN)				9.9		
		ing itoniy	10111102030	10	0.0		

Visc @ 100°C cSt ASTM D445 15.0

13.8

13.6



160 - ASCENDUM MACHINERY INC - MILLS RIVER Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : ASC0003411 Received 215 FANNING FIELDS RD : 12 Feb 2024 Lab Number : 06085698 : 12 Feb 2024 MILLS RIVER, NC Tested Unique Number : 10873143 Diagnosed : 12 Feb 2024 - Wes Davis US 28759 Test Package : CONST (Additional Tests: TBN) Contact: BRANDON DRAKE Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. brandon.drake@ascendummachinery.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: 8(286)687-0620 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (828)687-0622

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