

Machine Id VOLVO A45G 353428

Component Diesel Engine

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

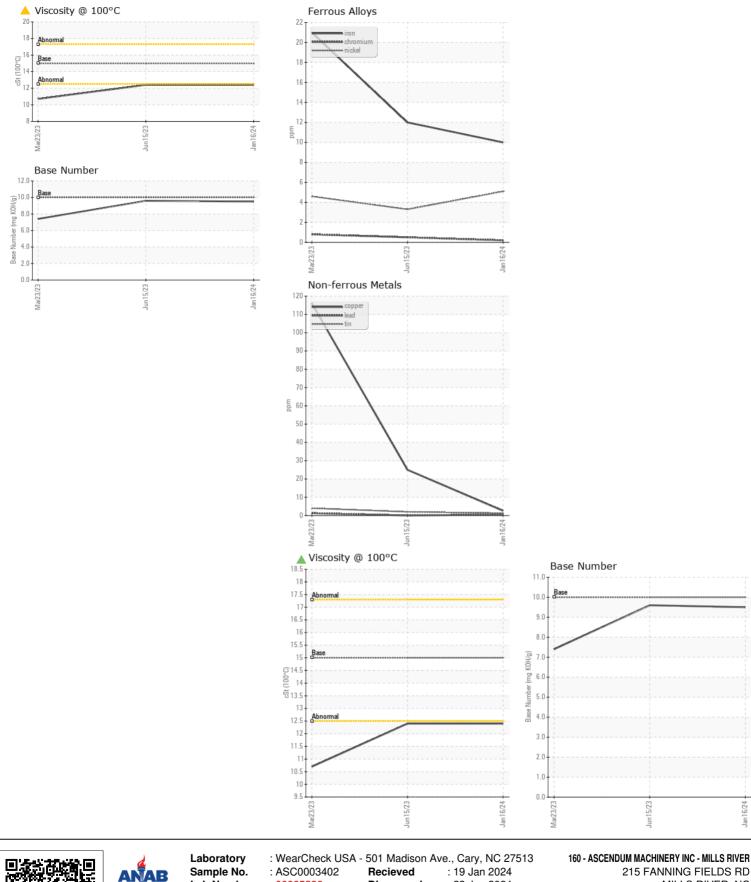
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		ASC0003402	VCP425103	
	Sample Date		Client Info		16 Jan 2024	15 Jun 2023	23 Mar 2023
	Machine Age	hrs	Client Info		2008	979	505
	Oil Age	hrs	Client Info		979	0	0
	Filter Age	hrs	Client Info		979	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	ATTENTION	NORMAL
WEAR All component wear rates are normal.	Iron	nnm	ASTM D5185m	>100	10	12	21
	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m		5	3	5
	Titanium	ppm	ASTM D5185m	>2	0	<1	<1
	Silver	ppm	ASTM D5185m	. 2	0	0	0
	Aluminum	ppm	ASTM D5185m		2	2	3
		ppm				0	1
	Lead	ppm	ASTM D5185m		<1	25	116
	Copper	ppm	ASTM D5185m		3	25	
	Tin Vanadium	ppm	ASTM D5185m	>15	1		4
	White Metal	ppm	ASTM D5185m *Visual	NONE	<1 NONE	<1 NONE	0 NONE
		scalar					
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	11	31
OONTAININATION	Potassium	ppm	ASTM D5185m		<1	0	3
There is no indication of any contamination in the oil.	Fuel	le le	WC Method		<1.0	<1.0	0.8
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	7.3	7.8	8.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	22.8	19.7
	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	>0.2	NEG	NEG	NEG
FLUID CONDITION The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Sodium	ppm	ASTM D5185m		3	2	4
	Boron	ppm	ASTM D5185m		60	58	88
	Barium	ppm	ASTM D5185m		0	0	2
	Molybdenum	ppm	ASTM D5185m		39	49	71
	Manganese	ppm	ASTM D5185m	0.0	<1	1	2
	Magnesium	ppm	ASTM D5185m	256	505	510	182
	Calcium	ppm	ASTM D5185m		1725	1961	1910
	Phosphorus	ppm	ASTM D5185m	935	1025	974	983
	Zinc	ppm	ASTM D5185m		1181	1195	1146
	Sulfur	ppm	ASTM D5185m	4079	3137	3581	3403
	Oxidation	Abs/.1mm	*ASTM D7414		19.7	19.5	15.0
	Base Number (BN)	mg KOH/g	ASTM D2896	10	9.5	9.6	7.4
	V/ 0 40000	- 01	AOTA DATE	450		A 10.1	10 7

12.4

12.4

Visc @ 100°C cSt ASTM D445 15.0

10.7



Lab Number : 06065290 Diagnosed : 22 Jan 2024 MILLS RIVER, NC : 10836672 Unique Number Diagnostician : Sean Felton 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 F: (828)687-0622 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: JEREMY FORD

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