

Machine Id

VOLVO A30G 742003

Diesel Engine

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

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		VCP411533	VCP347543	VCP312825
We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		25 Dec 2023	02 Jun 2022	13 Aug 2021
	Machine Age	hrs	Client Info		4127	2071	1487
	Oil Age	hrs	Client Info		500	0	500
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				ABNORMAL	ABNORMAL	ATTENTION
WEAR	Iron	ppm	ASTM D5185m	<100	13	13	11
All component wear rates are normal.	Chromium		ASTM D5185m		0	<1	<1
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m	>2	0	0	<1
	Silver	ppm	ASTM D5185m	. 2	0	<1	0
	Aluminum	ppm	ASTM D5185m			2	2
	Lead	ppm	ASTM D5185m		<1 0		0
	Copper	ppm	ASTM D5185m ASTM D5185m		0 <1	<1 6	22
	Tin	ppm	ASTM D5185m		<1 0	1	0
	Vanadium	ppm	ASTM D5185m	>10	0	0	0
	White Metal	ppm	*Visual	NONE	NONE	NONE	NONE
		scalar		NONE			
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	7	7
There is a moderate amount of fuel present in the oil.	Potassium	ppm	ASTM D5185m	>20	0	1	7
	Fuel	%	ASTM D3524	>6.0	4 .2	4.8	2 .9
	Water		WC Method	>0.2	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	7.8	8.6	7.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	23.1	21.2
	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	Sodium	ppm	ASTM D5185m		3	<1	2
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.	Boron	ppm	ASTM D5185m	2.5	38	45	46
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		35	40	39
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	256	441	494	504
	Calcium	ppm	ASTM D5185m		1545	1604	1593
	Phosphorus	ppm	ASTM D5185m		780	914	890
	Zinc	ppm	ASTM D5185m		986	1102	1002
	Sulfur	ppm	ASTM D5185m	4079	2522	3048	3171
	Oxidation		*ASTM D7414		19.5	21.3	17.6

9.2

11.5

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

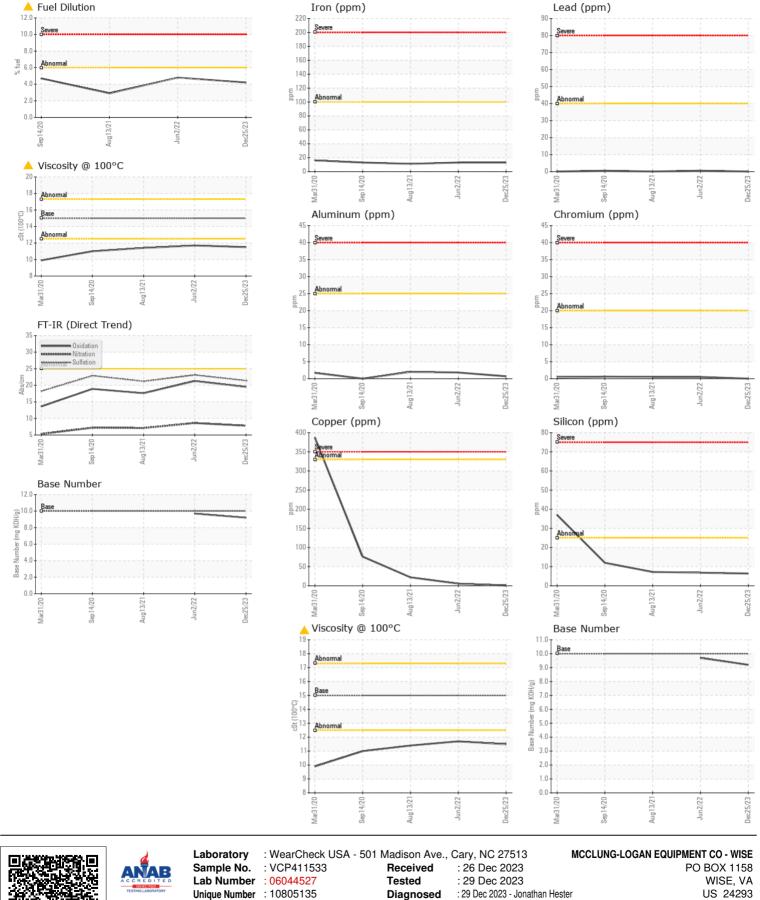
ASTM D445 15.0

Visc @ 100°C cSt

9.7

11.7

11.4



Diagnosed Test Package : MOB 1 (Additional Tests: PercentFuel, TBN) Contact: DANNY BARRINGTON Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dbarrington@mcclung-logan.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)

Contact/Location: DANNY BARRINGTON - VOLVO8881

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