

VOL Compon Dies Fluid

Machine Id VOLVO A30G 752919 Component Diesel Engine

VOLVO VDS-4.5 Premium Motor Oil 15W40 (--- 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		ASC0011251	ASC0002573	VCP423961
	Sample Date		Client Info		17 Jun 2024	22 Nov 2023	16 Aug 2023
	Machine Age	hrs	Client Info		3027	1990	1356
	Oil Age	hrs	Client Info		500	634	0
	Filter Age	hrs	Client Info		500	634	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	6	11	16
	Chromium	ppm	ASTM D5185m		0	<1	<1
	Nickel	ppm	ASTM D5185m		0	<1	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>2	<1	<1	1
	Aluminum	ppm	ASTM D5185m		2	2	1
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		1	26	▲ 135
	Tin	ppm	ASTM D5185m		<1	<1	1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon		ASTM D5185m		 o	л	7
	Potassium	ppm	ASTM D5185m		3 2	4	2
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		2 <1.0	<1.0	<1.0
	Water		WC Method		<1.0 NEG	NEG	< 1.0 NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	. 2	0.3	0.4	0.4
	Nitration	Abs/cm	*ASTM D7644	>3 >20	6.3	7.1	7.4
	Sulfation	Abs/.1mm	*ASTM D7024		18.2	18.8	19.7
	Silt		*Visual	NONE	NONE	NONE	NONE
	Debris	scalar 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		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION							
	Sodium	ppm	ASTM D5185m		1	<1	0
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		6	9	4
	Barium	ppm	ASTM D5185m		0	0	2
	Molybdenum	ppm	ASTM D5185m		57	63	63
	Manganese	ppm	ASTM D5185m		<1	<1	1
	Magnesium	ppm	ASTM D5185m		948	930	782
	Calcium	ppm	ASTM D5185m		1058	1067	1222
	Phosphorus	ppm	ASTM D5185m		1085	1073	994
	Zinc	ppm	ASTM D5185m		1241	1260	1164
	Sulfur	ppm	ASTM D5185m	0.5	3709	3173	2886
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.4	13.9	14.5
	Base Number (BN)	mg KOH/g	ASTM D2896		8.7	7.9	7.4

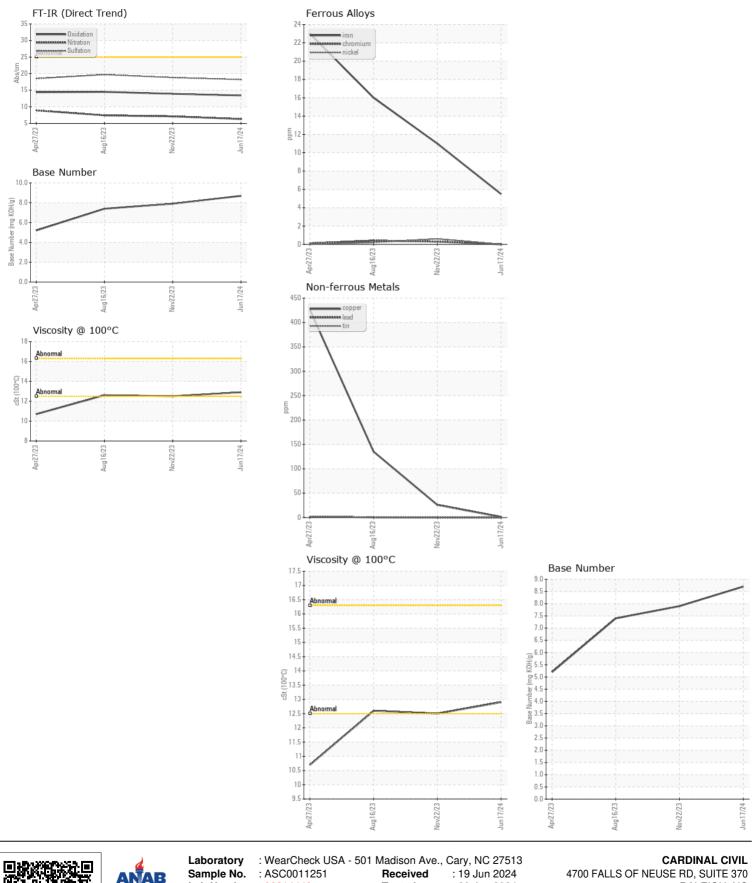
Visc @ 100°C cSt

ASTM D445

12.5

12.6

12.9



Lab Number : 06214449 Tested RALEIGH, NC : 20 Jun 2024 Unique Number : 11087313 Diagnosed : 21 Jun 2024 - Don Baldridge US 27609 Test Package : CONST (Additional Tests: TBN) Contact: Service Manager Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (919)324-1964 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: