

Machine Id VOLVO A45G 342286 Component Diesel Engine

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

VOLVO DE TRA DIESEL ENGINE DIE 15W40 VDS-5 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		VCP454972	VCP454186	VCP428796
The oil change at the time of sampling has been noted. Resample at the part against interval to maniter	Sample Date		Client Info		13 May 2024	16 Jan 2024	16 Jan 2024
the next service interval to monitor.	Machine Age	hrs	Client Info		8832	3868	3868
	Oil Age	hrs	Client Info		0	500	500
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				ATTENTION	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	9	16	4
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	0
	Nickel	ppm	ASTM D5185m		0	▲ 11	0
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m		7	3	1
	Lead	ppm	ASTM D5185m		0	1	0
	Copper	ppm	ASTM D5185m		3	36	<1
	Tin	ppm	ASTM D5185m		0	2	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		10	12	4
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0	<1	0
	Fuel	%	ASTM D3524	>6.0	2.8	0.6	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.1	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	5.6	8.1	7.3
	Sulfation	Abs/.1mm	*ASTM D7415		20.2	21.6	21.7
	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	Sodium	ppm	ASTM D5185m		5	4	2
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	2.5	12	26	42
	Barium	ppm	ASTM D5185m	0.0	0	0	0
	Molybdenum	ppm	ASTM D5185m	0.7	33	47	41
	Manganese	ppm	ASTM D5185m	0.0	<1	1	0
	Magnesium	ppm	ASTM D5185m	256	460	537	536
	Calcium	ppm	ASTM D5185m		1134	1700	1765
	Phosphorus	ppm	ASTM D5185m	935	787	973	1008
	Zinc	ppm	ASTM D5185m	1223	889	1185	1186
	Sulfur	ppm	ASTM D5185m	4079	2714	3069	3210
	Oxidation	Abs/.1mm	*ASTM D7414		16.1	18.3	20.0
	Base Number (BN)	mg KOH/g			6.9	8.2	9.8
		~C+	ACTM D445	15 0	0.6	117	10.0

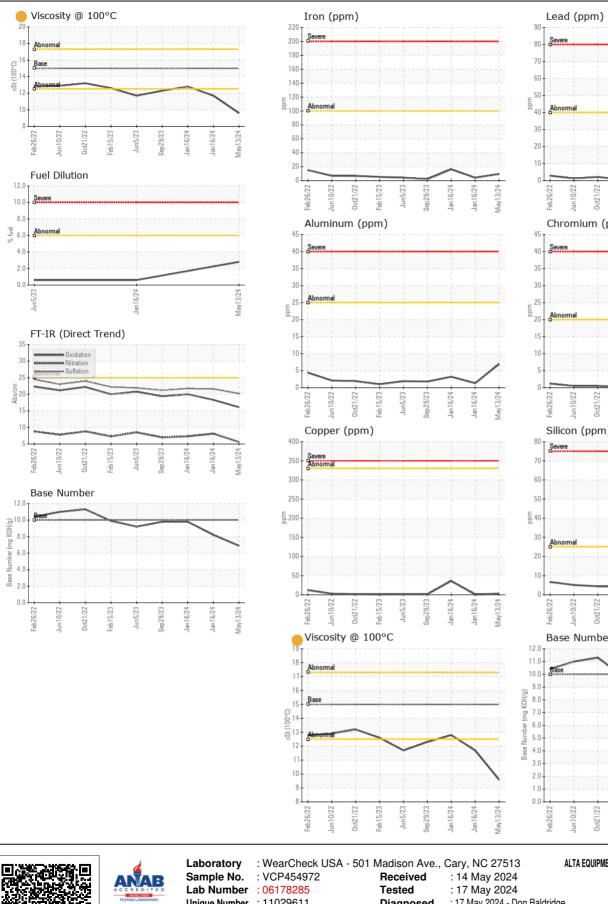
Visc @ 100°C cSt

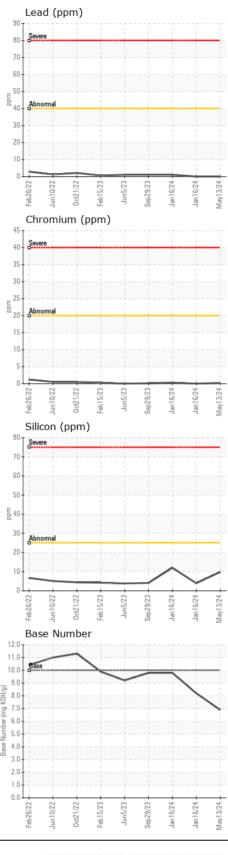
ASTM D445 15.0

11.7

12.8

9.6





ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC 8418 PALM RIVER ROAD TAMPA, FL US 33619 Unique Number : 11029611 Diagnosed : 17 May 2024 - Don Baldridge Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: KENNY HANEY Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. khaney@flaglerce.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (813)630-0077 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (813)630-2233

Contact/Location: KENNY HANEY - VOLVO0093