

WOLVO A25G 752382 Diesel Engine

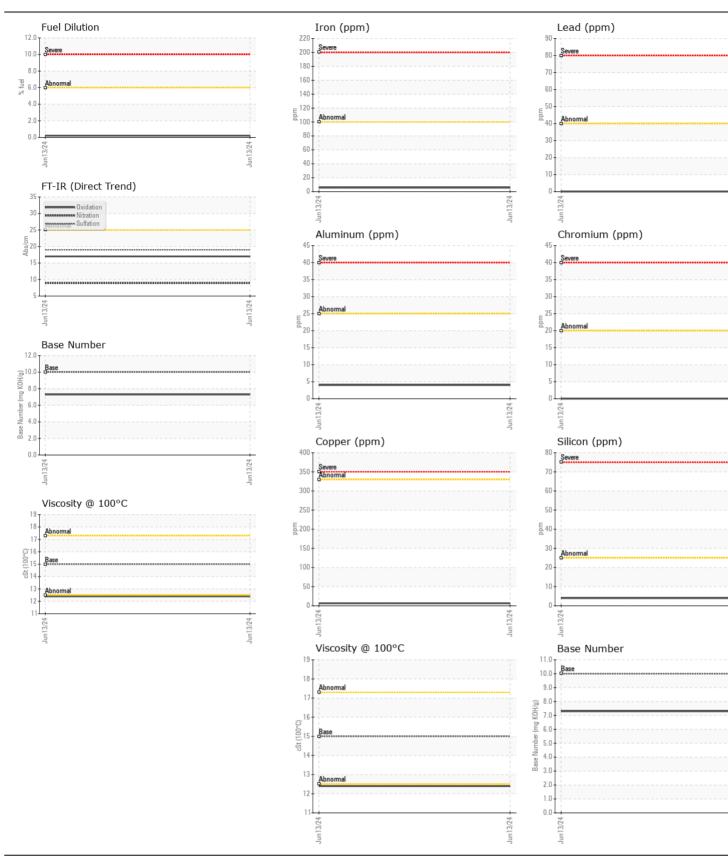
VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		VCP443974		
	Sample Date		Client Info		13 Jun 2024		
	Machine Age	hrs	Client Info		2503		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m		6		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0		
	Nickel	ppm	ASTM D5185m	>2	3		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m		4		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		6		
	Tin	ppm	ASTM D5185m	>15	<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	<u>\</u> 25	4		
CONTAMINATION	Potassium	ppm	ASTM D5185m		4		
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3103ml		0.2		
	Water	70	WC Method		NEG		
	Glycol		WC Method	20.2	NEG		
	Soot %	%	*ASTM D7844	>3	0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	8.9		
	Sulfation	Abs/.1mm	*ASTM D7415		19.0		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185m		4		
	Boron	ppm	ASTM D5185m	2.5	79		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m	0.7	96		
	Manganese	ppm	ASTM D5185m	0.0	1		
	Magnesium	ppm	ASTM D5185m	256	667		
	Calcium	ppm	ASTM D5185m	2057	1421		
	Phosphorus	ppm	ASTM D5185m	935	839		
	Zinc	ppm	ASTM D5185m	1223	955		
	Sulfur	ppm	ASTM D5185m	4079	3676		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0		
	Base Number (BN)	mg KOH/g	ASTM D2896	10	7.3		
	Vier C 10000	- 01	AOTM DAVE	100			

Visc @ 100°C cSt

ASTM D445 15.0

12.4



COWIN EQUIPMENT COMPANY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Ξf Sample No. : VCP443974 Received : 20 Jun 2024 2238 PINSON VALLEY PARKWAY : 06215414 : 24 Jun 2024 Lab Number Tested **BIRMINGHAM, AL** Unique Number : 11088278 : 24 Jun 2024 - Jonathan Hester US 35217 Diagnosed Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: BRANTLY CLAY Certificate L2367 bclay@cowin.com 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: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (205)856-2106

Contact/Location: BRANTLY CLAY - VOLVO8528