

[433891 PATRICK OHMST] Machine Id VOLVO SD25D 194145

Component Diesel Engine

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

VOLVO ULI RA DIESEL ENGINE OIL 15W4U VL	13-3 (GAL	. /					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		VCP368738		
	Sample Date		Client Info		11 Dec 2023		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		500		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		N/A		
	Sample Status				MARGINAL		
WEAR	Iron		ASTM D5185m	> 100	9		
WEAN	Chromium	ppm	ASTM D5185m		9 <1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm ppm	ASTM D5185m	>2	0		
	Silver		ASTM D5185m	> 2	0		
	Aluminum	ppm	ASTM D5185m		2		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm ppm	ASTM D5185m		0 <1		
	Tin	ppm	ASTM D5185m		<1 <1		
	Vanadium	ppm	ASTM D5185m	210	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6		
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0		
	Fuel	%	ASTM D3524	>6.0	2.8		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.2		
	Nitration	Abs/cm	*ASTM D7624		6.4		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1		
	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	Sodium	ppm	ASTM D5185m		3		
	Boron	ppm	ASTM D5185m	2.5	3		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		54		
	Manganese	ppm	ASTM D5185m	0.0	<1		
	Magnesium	ppm	ASTM D5185m		405		
	Calcium	ppm	ASTM D5185m		1704		
	Phosphorus	ppm	ASTM D5185m		960		
	Zinc	ppm	ASTM D5185m		1068		
	Sulfur	ppm	ASTM D5185m		3081		
	Oxidation	Abs/.1mm	*ASTM D7414		15.3		
	Base Number (BN)	mg KOH/g	ASTM D2896	10	9.2		

Visc @ 100°C cSt

ASTM D445 15.0

11.7



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 ALTA EQUIPMENT Sample No. : VCP368738 Received 5985 COURT STREET ROAD : 23 Feb 2024 Lab Number : 06098207 : 28 Feb 2024 SYRACUSE, NY Tested Unique Number : 10896437 : 28 Feb 2024 - Jonathan Hester US 13206 Diagnosed Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: JIM STRIGLE Certificate L2367 JIM.STRIGLE@ALTG.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: (315)437-2611 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (315)434-9471

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