

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP415881		
Sample Date		Client Info		23 Feb 2024		
Machine Age	hrs	Client Info		1020		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		Changed		
Sample Status				ABNORMAL		
Iron	ppm	ASTM D5185m	>100	15		
Chromium		ASTM D5185m	>10	<1		
Nickel				1		
Titanium		ASTM D5185m		<1		
Silver		ASTM D5185m	>2	0		
Aluminum	ppm			2		
Lead				- <1		
Copper				A 237		
Tin		ASTM D5185m	>10	2		
Vanadium						
White Metal	scalar	*Visual	NONE			
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>20	A 23		
Potassium	ppm	ASTM D5185m	>20	6		
Fuel	%	ASTM D3524	>6.0	0.3		
Water		WC Method	>0.1	NEG		
Glycol		WC Method		NEG		
Soot %	%	*ASTM D7844	>3	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	8.7		
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5		
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	>0.1	NEG		
Sodium	nnm	ASTM D5185m		2		
			2.5			
-						
-						
-						
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				4//17		
	Sample Number Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Metal Yellow Metal Yellow Metal Yellow Metal Yellow Metal Silicon Potassium Fuel Water Glycol Soot % Nitration Sulfation Silt Debris Sand/Dirt Appearance Odor	Sample NumberSample DateMachine AgehrsOil AgehrsFilter AgehrsOil ChangedFilter ChangedFilter Changedsample StatusIronppmChromiumppmNickelppmTitaniumppmSilverppmAluminumppmLeadppmVanadiumppmVanadiumppmVanadiumppmFuel%SiliconppmFuel%SuffationAbs/cmSuffationAbs/cmSuffationAbs/cmSuffationScalarSoot %%NitrationAbs/cmSuffationScalarSodiumppmSiltscalarSodiumppmMapearancescalarAppearancescalarMolybdenumppmManganeseppmMagnesiumppmPhosphorusppmZincppm	Sample NumberClient InfoSample DateClient InfoMachine AgehrsClient InfoOil AgehrsClient InfoFilter AgehrsClient InfoOil ChangedClient InfoFilter ChangedClient InfoSample StatusClient InfoSample StatusSilverIronppmASTM D5185mNickelppmASTM D5185mNickelppmASTM D5185mAluminumppmASTM D5185mLeadppmASTM D5185mCopperppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mFuel%ASTM D5185mFuel%ASTM D5185mFuel%ASTM D5185mFuel%ASTM D5185mFuel%ASTM D5185mFuel%ASTM D5185mFuel%ASTM D5185mFuel%ASTM D7624SulfationAbs/.1mm*ASTM D7624SulfationAbs/.1mm*ASTM D7624SulfationAbs/.1mm*ASTM D7624SulfationAbs/.1mm*ASTM D5185mGodorscalar*VisualDebrisscalar*VisualAppearancescalar*VisualAppearancescalar*VisualMolybdenumppmASTM D5185mBariumppmASTM D5185mManganeseppmA	Sample NumberClient InfoSample DateClient InfoMachine AgehrsClient InfoOil AgehrsClient InfoFilter AgehrsClient InfoOil ChangedClient InfoFilter ChangedClient InfoSample Status-100ChromiumppmASTM D5185mNickelppmASTM D5185mSilverppmASTM D5185mSiloonppmASTM D5185mVhite Metalscalar*VisualVellow Metalscalar*VisualSiliconppmASTM D5185mPotassiumppmASTM D5185mSoot %%*ASTM D7624Soot %%*ASTM D7415Sand/Dirtscalar*VisualAppearancescalar*VisualAppearancescalar*VisualAppearancescalar*VisualAppearancescalar*VisualAppearancescalar*VisualAppearancescalar*VisualAstm D5185m0.0Molybdenumppm<	Sample NumberClient InfoVCP415881Sample DateClient Info23 Feb 2024Machine AgehrsClient Info0Oil AgehrsClient Info0Filter AgehrsClient Info0Oil ChangedClient InfoChangedFilter ChangedClient InfoChangedSample StatusClient InfoChangedIronppmASTM D5185m>10NickelppmASTM D5185m>10NickelppmASTM D5185m>20AluminumppmASTM D5185m>20AluminumppmASTM D5185m>20LeadppmASTM D5185m>102LeadppmASTM D5185m>102VanadiumppmASTM D5185m>20<1	Sample Number Client Info VCP415881 Machine Age hrs Client Info 1020 Machine Age hrs Client Info 0 Oil Age hrs Client Info 0 Filter Age hrs Client Info 0 Oil Changed Client Info Changed Sample Status ABNORMAL Sample Status ABNORMAL Nickel ppm ASTM D5185m >10 1 Nickel ppm ASTM D5185m >10 2 Silver ppm ASTM D5185m >20 <1

Oxidation Abs/.1mm *ASTM D7414 >25

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

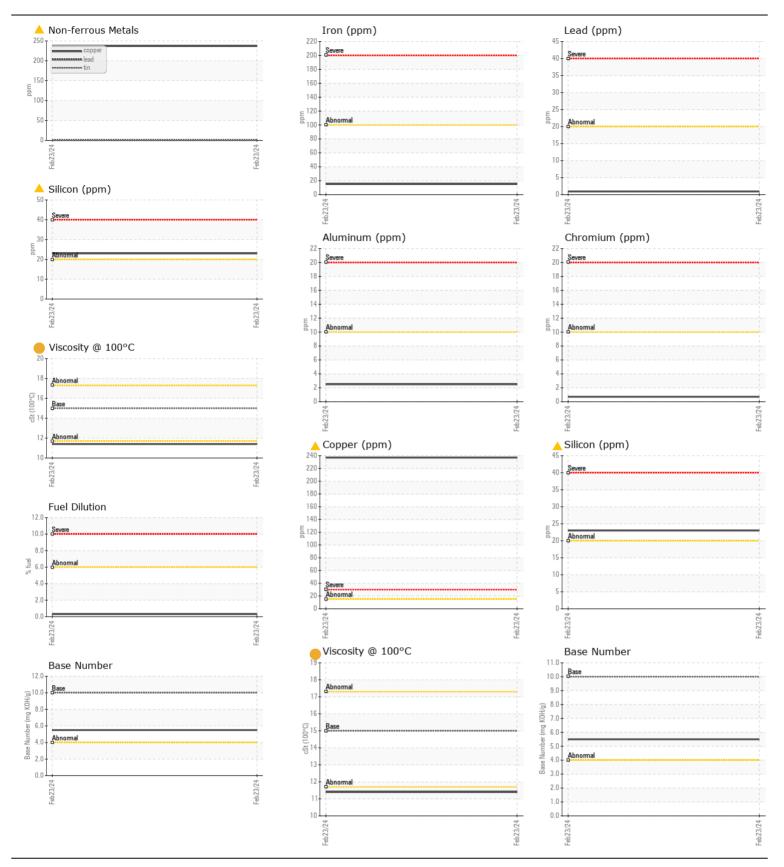
ASTM D445 15.0

Visc @ 100°C cSt

14.9

5.5

11.4



ALTA EQUIPMENT COMPANY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received : 27 Feb 2024 5210 REESE ROAD : VCP415881 Ċ. DAVIE, FL Lab Number : 06101439 : 29 Feb 2024 Tested : 29 Feb 2024 - Jonathan Hester US 33314 Unique Number : 10899669 Diagnosed Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: N. FACEY Certificate L2367 nfacey@altaequipfl.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: (954)581-4744 F: (954)583-0318 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: N. FACEY - VOLVO0095

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