[WADE BORDEAUX] Machine Id TAKEUCHI TL8R2 408006210 Component

Diesel Engine

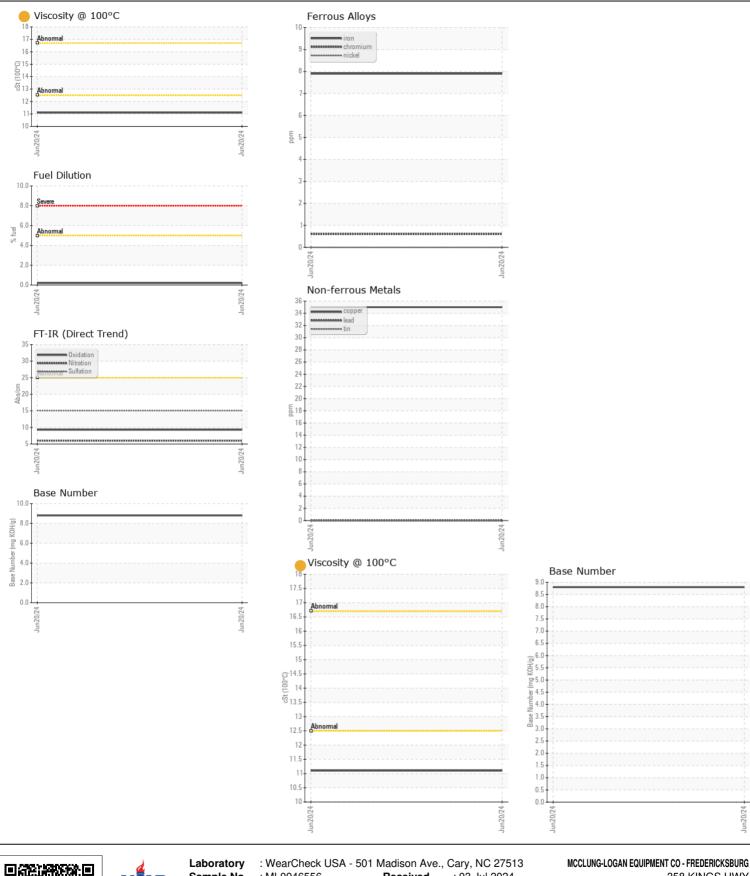
VALVOLINE 15W40 ALL TERRAIN HD (--- GAL)

Test	UOM	Method	Limit/Abn	Current	History1	History2
•	hrs	Client Info				
-	hrs	Client Info				
Filter Age	hrs	Client Info		51		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		Changed		
Sample Status				ATTENTION		
Iron	ppm	ASTM D5185m	>100	8		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m		0		
Silver			>3	0		
Aluminum		ASTM D5185m	>20	2		
			210			
			NONE	-		
Yellow Metal	scalar	*Visual	NONE	NONE		
	%					
			>0.2			
Soot %	%		>3			
Nitration	Abs/cm		>20	6.0		
Sulfation	Abs/.1mm	*ASTM D7415	>30	15.1		
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		
Sodium	ppm	ASTM D5185m		14		
Boron	ppm	ASTM D5185m		22		
Barium		ASTM D5185m		1		
-						
-						
	Abs/.1mm	*ASTM D5185m	. 05	9.3		
		4 > 1 M 1 1 / 4 1 4	><>	M.3		
Oxidation Base Number (BN)		ASTM D2896	220	8.8		
-	Sample NumberSample DateMachine AgeOil AgeFilter AgeOil ChangedFilter ChangedSample StatusIronChromiumNickelTitaniumSilverAluminumLeadCopperTinVanadiumWhite MetalYellow MetalSiliconPotassiumFuelWaterGlycolSoot %NitrationSiltDebrisSand/DirtAppearanceOdorEmulsified WaterSodiumBariumManganeseMagnesiumCalciumPhosphorusZincSulfur	Sample NumberSample DateMachine AgehrsOil AgehrsFilter AgehrsOil ChangedFilter ChangedFilter Changedsample StatusIronppmChromiumppmNickelppmTitaniumppmSilverppmAluminumppmLeadppmTinppmVanadiumppmVanadiumppmVaterscalarSiliconppmFuel%WaterscalarSulfationAbs/cmSulfationAbs/cmSulfationAbs/lmmSiltscalarSoot %%NitrationAbs/cmSulfationScalarSodiumppmSiltscalarSodiumppmMapearancescalarSodiumppmManganeseppmManganeseppmPhosphorusppmZincppmSulfurppm	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 D5185mVanadiumppmASTM D5185mFuel%ASTM D5185mFuel%ASTM D5185mFuel%ASTM D5185mFuel%ASTM D5185mFuel%ASTM D5185mFuel%ASTM D7844NitrationAbs/cm<*/td>*ASTM D7844NitrationAbs/cm*ASTM D7844NitrationAbs/cm*ASTM D7844Siltscalar*VisualSodiumppmASTM D5185mBoronppmASTM D5185mManganeseppmASTM D5185mManganeseppmASTM D5185mMagnesiumppmASTM D5185mPhosphorusppmASTM D5185mSulfurppmASTM D5185mSulfurppmASTM D	Sample NumberClient InfoSample DateClient InfoMachine AgehrsClient InfoOil AgehrsClient InfoFilter AgehrsClient InfoOil ChangedClient InfoFilter ChangedClient InfoSample StatusSample StatusIronppmASTM D5185mNickelppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVellow Metalscalar*VisualNonceSoliconppmASTM D5185m>20Fuel%ASTM D5185mSoliconppmASTM D5185mSoliconppmASTM D5185mSoliconppmASTM D5185mSoliconppmASTM D5185mSulfationAbs/cm*VisualNonceSoot %%Mastru D5185mscalarVisualNONESand/Dirtscalar*VisualAppearancescalar*VisualBoron <td< th=""><td>Sample NumberClient InfoML0946556Sample DateClient Info20 Jun 2024Machine AgehrsClient Info51Oil AgehrsClient Info51Filter AgehrsClient Info51Oil ChangedClient InfoChangedFilter ChangedClient InfoChangedSample StatusATTENTIONIronppmASTM D5185m>100RR0TitaniumppmASTM D5185m>20NickelppmASTM D5185m>20SilverppmASTM D5185m>3OASTM D5185m>30AluminumppmASTM D5185m>20LeadppmASTM D5185m>33035TinppmASTM D5185m>10NONEVanadiumppmASTM D5185m>10NONEYellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>2015Fuel%ASTM D7624>2015Fuel%ASTM D7624>3015.1SiliconppmASTM D7624>206.0Soto %%%ASTM D7624>206.0Soto %%%ASTM D7624>206.0SulfationAbs/cm*ASTM D7624>206.0SulfationAbs/cm*ASTM D7624>206.0SodiumppmASTM D5185m14NORE</td><td>Sample Number Client Info ML0946556 Sample Date Client Info 20 Jun 2024 Machine Age hrs Client Info 51 Oil Age hrs Client Info 51 Oil Changed Client Info Changed Client Info S1 Oil Changed Client Info Changed Changed Oil Changed Client Info Changed Changed Sample Status ASTM D5185m >100 8 Nickel ppm ASTM D5185m >20 <1</td> Nickel ppm ASTM D5185m >30 0 Silver ppm ASTM D5185m >40 0 Copper ppm ASTM D5185m >15 0 Vanadium ppm ASTM D5185m >20 15 Valed</td<>	Sample NumberClient InfoML0946556Sample DateClient Info20 Jun 2024Machine AgehrsClient Info51Oil AgehrsClient Info51Filter AgehrsClient Info51Oil ChangedClient InfoChangedFilter ChangedClient InfoChangedSample StatusATTENTIONIronppmASTM D5185m>100RR0TitaniumppmASTM D5185m>20NickelppmASTM D5185m>20SilverppmASTM D5185m>3OASTM D5185m>30AluminumppmASTM D5185m>20LeadppmASTM D5185m>33035TinppmASTM D5185m>10NONEVanadiumppmASTM D5185m>10NONEYellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>2015Fuel%ASTM D7624>2015Fuel%ASTM D7624>3015.1SiliconppmASTM D7624>206.0Soto %%%ASTM D7624>206.0Soto %%%ASTM D7624>206.0SulfationAbs/cm*ASTM D7624>206.0SulfationAbs/cm*ASTM D7624>206.0SodiumppmASTM D5185m14NORE	Sample Number Client Info ML0946556 Sample Date Client Info 20 Jun 2024 Machine Age hrs Client Info 51 Oil Age hrs Client Info 51 Oil Changed Client Info Changed Client Info S1 Oil Changed Client Info Changed Changed Oil Changed Client Info Changed Changed Sample Status ASTM D5185m >100 8 Nickel ppm ASTM D5185m >20 <1

11.1

ASTM D445

Visc @ 100°C cSt



Sample No. : ML0946556 Received 358 KINGS HWY : 03 Jul 2024 Lab Number : 06226977 Tested FREDERICKSBURG, VA : 08 Jul 2024 Unique Number : 11110470 Diagnosed : 08 Jul 2024 - Don Baldridge US 22405 Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: JW MEADOWS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. jmeadows@mcclung-logan.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: JW MEADOWS - MCCFRE Page 2 of 2