

## Machine Id INTERNATIONAL 1327

## **Diesel Engine**

DIESEL ENGINE OIL SAE 15W40 (--- QTS)

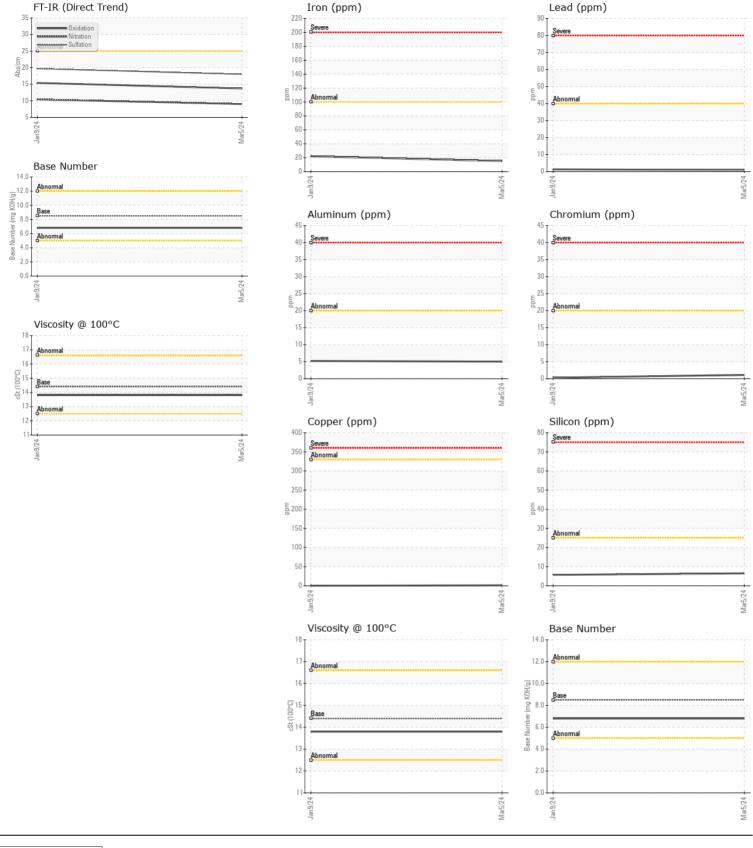
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0906162	WC0870830	
Sample Date		Client Info		05 Mar 2024	09 Jan 2024	
Machine Age	mls	Client Info		274870	268590	
Oil Age	mls	Client Info		0	0	
Filter Age	mls	Client Info		0	0	
Oil Changed		Client Info		Not Changd	Not Changd	
Filter Changed		Client Info		Not Changd	Changed	
Sample Status				NORMAL	NORMAL	
Iron	ppm	ASTM D5185m	>100	15	22	
Chromium	ppm	ASTM D5185m	>20	1	<1	
Nickel				<1		
Titanium		ASTM D5185m			0	
Silver			>3		0	
					1	
					0	
			NONE			
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon		ΔSTM D5185m	<u></u>	6	6	
	ppiii					
			20.2			
	0/_		.3			
		*Visual	>0.2	NEG	NEG	
Rodium				••••••	0	
•			100			
0			450			
•						
	ppm					
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.8	6.8	
	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 Sulfation Sulfation Sulfation Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Oxidation	Sample NumberSample DateMachine AgemlsOil AgemlsFilter AgemlsOil ChangedSample StatusFilter ChangedppmSample StatusppmChromiumppmNickelppmSilverppmAluminumppmCopperppmYellow MetalscalarSiliconppmYellow MetalscalarSiliconppmFuelypmSiliconppmSulfationAbs/.1mmSiltscalarSulfationAbs/.1mmSiltscalarCopperppmFuelypmYellow MetalscalarSoot %%NitrationAbs/.1mmSiltscalarSodiumppmBoronppmBariumppmMolybdenumppmMagnesiumppmCalciumppmSulfationAbs/.1mmSulfurppmMagnesiumppmMagnesiumppmCalciumppmSulfurppmSulfurppmCalciumppmCalciumppmCalciumppmCuidationAbs/.1mm	Sample NumberClient InfoSample DateClient InfoMachine AgemlsClient InfoOil AgemlsClient InfoFilter AgemlsClient InfoOil ChangedClient InfoFilter ChangedClient InfoSample StatusClient InfoSample StatusSilverIronppmASTM D5185mNickelppmASTM D5185mNickelppmASTM D5185mAluminumppmASTM D5185mLeadppmASTM D5185mCopperppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mFuelWC MethodSiliconppmASTM D5185mFuelWC MethodGlycolWC MethodSoot %%*ASTM D5185mFuelWC MethodSiltscalar*VisualDebrisscalar*VisualAppearancescalar*VisualAppearancescalar*VisualAppearancescalar*VisualMolybdenumppmASTM D5185mManganeseppmASTM D5185mManganeseppmASTM D5185mMolybdenumppmASTM D5185mManganeseppmASTM D5185mManganeseppmASTM D5185mMolybdenumppmASTM D5185mMolybdenumppmASTM D5185mMolybdenum<	Sample NumberClient InfoSample DateClient InfoMachine AgemlsClient InfoOil AgemlsClient InfoFilter AgemlsClient InfoOil ChangedClient InfoInfoFilter ChangedClient InfoInfoSample StatusSilverPpmNickelppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mAluminumppmASTM D5185mCopperppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mYellow Metalscalar*VisualSiliconppmASTM D5185mYellow Metalscalar*VisualSiliconppmASTM D5185mYeulWC Method>5WaterWC Method>0.2GiycolWC MethodSoot %%*ASTM D764Appearancescalar*VisualNorneScalar*VisualAppearancescalar*VisualAppearancescalar*VisualAppearancescalar*VisualAppearancescalar*VisualAppearancescalar*VisualAppearancescalar*VisualAppearancescalar*Visua	Sample NumberClient InfoWC0906162Sample DateClient Info05 Mar 2024Machine AgemlsClient Info0Oil AgemlsClient Info0Filter AgemlsClient Info0Oil ChangedClient InfoNot ChangdFilter ChangedClient InfoNot ChangdSample StatusClient InfoNot ChangdSample StatusNOFMALLIronppmASTM D5185m>100SilverppmASTM D5185m>20ItaniumppmASTM D5185m>3SilverppmASTM D5185m>3SilverppmASTM D5185m>3LeadppmASTM D5185m>30TinppmASTM D5185m>330TinppmASTM D5185m>1VanadiumppmASTM D5185m>20Yellow Metalscalar*VisualNONEYellow Metalscalar*VisualNONESiliconppmASTM D5185m>204FuelWC Method>5<1.0WaterIWC Method>5<1.0SulfationAbs/cm'ASTM D7624>209.0SulfationAbs/cm'YisualNONENONEAppearancescalar'VisualNONENONEAppearancescalar'VisualNORENONEAppearancescalar'VisualNORENONEAppearancescalar	Sample Number Client Info WC0906162 WC0870830   Sample Date Client Info 05 Mar 2024 09 Jan 2024   Machine Age mls Client Info 0 0   Filter Age mls Client Info 0 0   Oil Age mls Client Info 0 0   Filter Changed Client Info Not Changd Not Changd   Filter Changed Client Info Not Changd Changed   Sample Status Vincel Not Marge Not Changd   Silver ppm ASTM D5185m >100 15 22   Chromium ppm ASTM D5185m >20 5 5   Silver ppm ASTM D5185m >30 1 0   Aluminum ppm ASTM D5185m >40 1 1   Copper ppm ASTM D5185m >30 1 0   Visual NONE NONE NONE NONE   Yelow Metal scalar Vis

Visc @ 100°C cSt

ASTM D445 14.4

13.8

13.8



WAKE COUNTY PUBLIC SCHOOL SYSTEM Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0906162 Received 1551 ROCK QUARRY ROAD : 23 May 2024 Lab Number : 06189044 Tested : 24 May 2024 RALEIGH, NC Unique Number : 11045796 Diagnosed : 24 May 2024 - Wes Davis US 27610 Test Package : MOB 1 (Additional Tests: TBN) Contact: DEVIN WEBER Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dweber@wcpss.net \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (919)856-8076 F: x: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

ŝ

Contact/Location: DEVIN WEBER - WCPRAL Page 2 of 2