

Machine Id INTERNATIONAL 7600 A-382 Component Diesel Engine Fluid DURAMAX 15W40 (40 QTS)

Test	UOM	Method	Limit/Abn	Current	History1	History2
	0.0111					DC0022564
•						10 Jun 2023
Machine Age	hrs	Client Info		-		15797
Oil Age	hrs	Client Info		548	516	935
0	hrs	Client Info		548	516	935
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	NORMAL	NORMAL
			407		4.0	07
						27
						2
						0
						<1
						0
						3
						2
• •						1
			~_			0
			NONE	-		NONE
						NONE
Silicon	ppm	ASTM D5185m	>18	15	8	9
Potassium	ppm	ASTM D5185m	>20	A 1058	4	3
Fuel		WC Method	>2.0	<1.0	<1.0	<1.0
Water			>0.2	NEG	NEG	NEG
	%			0.20	NEG	NEG
					0.4	0.7
	Abs/cm			15.5	00	10.3
	Abs/.1mm	*ASTM D7415		• • -		00 -
				21.5	19.1	23.5
Silt	scalar	*Visual	NONE	NONE	19.1 NONE	NONE
Debris	scalar	*Visual *Visual	NONE NONE	NONE NONE	19.1 NONE NONE	NONE NONE
Debris Sand/Dirt	scalar scalar	*Visual *Visual *Visual	NONE NONE NONE	NONE NONE NONE	19.1 NONE NONE NONE	NONE NONE NONE
Debris Sand/Dirt Appearance	scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NONE NORML	NONE NONE NONE NORML	19.1 NONE NONE NONE NORML	NONE NONE NORML
Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual	NONE NONE NORML NORML	NONE NONE NORML NORML	19.1 NONE NONE NORML NORML	NONE NONE NORML NORML
Debris Sand/Dirt Appearance	scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NONE NORML	NONE NONE NONE NORML	19.1 NONE NONE NONE NORML	NONE NONE NORML
Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual	NONE NONE NORML NORML	NONE NONE NORML NORML	19.1 NONE NONE NORML NORML	NONE NONE NORML NORML
Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual	NONE NONE NORML NORML	NONE NONE NORML NORML NEG	19.1 NONE NONE NORML NORML NEG	NONE NONE NORML NORML NEG
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar scalar ppm	*Visual *Visual *Visual *Visual *Visual *Visual	NONE NONE NORML NORML	NONE NONE NORML NORML NEG 3248	19.1 NONE NONE NORML NORML NEG 2	NONE NONE NORML NORML NEG 2
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NONE NONE NORML NORML NEG 3248 9	19.1 NONE NONE NORML NORML NEG 2 <1	NONE NONE NORML NORML NEG 2 0
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NONE NONE NORML NORML NEG 3248 9 <1	19.1 NONE NONE NORML NORML NEG 2 <1 11	NONE NONE NORML NORML NEG 2 0 0 0 4 <1
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar scalar scalar scalar scalar ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NONE NONE NORML NORML NEG 3248 9 <1 374	19.1 NONE NONE NORML NORML NEG 2 <1 111 3	NONE NONE NORML NORML NEG 2 0 0 4
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Malybdenum Maganese Magnesium Calcium	scalar scalar scalar scalar scalar ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NONE NONE NORML NORML NEG 3248 9 <1 374 <1 76 2229	19.1 NONE NONE NORML NORML NEG 2 <1 11 3 <1 48 2259	NONE NONE NORML NORML NEG 2 0 0 4 <1 67 2709
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium Phosphorus	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NONE NONE NORML NORML NEG 3248 9 <1 374 <1 374 <1 76 2229 832	19.1 NONE NONE NORML NORML NEG 2 <1 11 3 <1 48 2259 897	NONE NONE NORML NORML NEG 2 0 0 0 4 <1 67 2709 1018
Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Malybdenum Maganese Magnesium Calcium	scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NONE NONE NORML NORML NEG 3248 9 <1 374 <1 76 2229	19.1 NONE NONE NORML NORML NEG 2 <1 11 3 <1 48 2259	NONE NONE NORML NORML NEG 2 0 0 4 <1 67 2709
	Sample Number Sample Date Machine Age Oil Age Filter Age Oil Changed Sample Status Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Metal Yellow Metal Silicon Fuel	Sample NumberSample DateMachine AgehrsOil AgehrsOil AgehrsFilter AgehrsOil ChangedSample StatusFilter ChangedppmSample StatusppmIronppmNickelppmTitaniumppmSilverppmAluminumppmCopperppmTinppmVanadiumppmVanadiumppmSiliconppmFuelscalarSiliconppmFuel%Soot %%NitrationAbs/cm	Sample NumberClient InfoSample DateClient InfoMachine AgehrsClient InfoOil AgehrsClient InfoFilter AgehrsClient InfoOil ChangedClient InfoFilter ChangedClient InfoSample StatusClient InfoIronppmASTM D5185mChromiumppmASTM D5185mNickelppmASTM D5185mSilverppmASTM D5185mAluminumppmASTM D5185mLeadppmASTM D5185mTinppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mSiliconppmASTM D5185mFuelwC MethodWhite Metalscalar*VisualSiliconppmASTM D5185mFuelwC MethodGlycol%*ASTM D5185mFuelWC MethodKater%*ASTM D2982Soot %%*ASTM D7624	Sample NumberClient InfoSample DateClient InfoMachine AgehrsClient InfoOil AgehrsClient InfoFilter AgehrsClient InfoOil ChangedClient InfoFilter ChangedClient InfoFilter ChangedClient InfoSample StatusClient InfoIronppmASTM D5185mNickelppmASTM D5185mNickelppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mLeadppmASTM D5185mTinppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mYellow Metalscalar*VisualNONEYellow MetalscalarSiliconppmASTM D5185mPotassiumppmASTM D5185mPotassiumppmASTM D5185mSot %%*ASTM D5184Soot %%*ASTM D7844	Sample NumberClient InfoDC0034936Sample DateClient Info21 May 2024Machine AgehrsClient Info17405Oil AgehrsClient Info548Filter AgehrsClient Info548Oil ChangedClient InfoChangedFilter ChangedClient InfoChangedSample StatusClient InfoChangedIronppmASTM D5185m>127AgeASTM D5185m>300TitaniumppmASTM D5185m>30NickelppmASTM D5185m>2<1SilverppmASTM D5185m>20AluminumppmASTM D5185m>29<1CopperppmASTM D5185m>29<1CopperppmASTM D5185m>20VanadiumppmASTM D5185m>20VanadiumppmASTM D5185m>20VanadiumppmASTM D5185m>20Vellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>1815PotassiumppmASTM D5185m>20<1058FuelWC Method>2.0<1.0WaterWC Method>2.0<1.0WaterWC Method>2.0<1.0Soot %%*ASTM D7844>30.5	Sample NumberClient InfoDC0034936DC0030804Sample DateClient Info21 May 202416 Sep 2023Machine AgehrsClient Info1740516313Oil AgehrsClient Info548516Filter AgehrsClient Info548516Oil ChangedClient InfoChangedChangedFilter ChangedClient InfoChangedChangedSample StatusClient InfoSEVERENORMALIronppmASTM D5185m<>1273616ChromiumppmASTM D5185m<>300<1NickelppmASTM D5185m<>2<1<1SilverppmASTM D5185m<>200AluminumppmASTM D5185m<>29<1<1CopperppmASTM D5185m<>20<1VanadiumppmASTM D5185m<>20<1VanadiumppmASTM D5185m<>20<1Vhite Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiliconppmASTM D5185m<>18158PotassiumppmASTM D5185m<>20<10.0<1.0WaterWC Method>2.0<1.0<1.0WaterWC Method>2.0<1.0<1.0SiliconppmASTM D5185m<>18158PotassiumppmASTM D5185m<>20<1.0<1.0WaterWC Method </th

Oxidation

Visc @ 100°C cSt

Abs/.1mm *ASTM D7414 >25

ASTM D445

Base Number (BN) mg KOH/g ASTM D2896

11.4

6.2

13.9

14.9 5.7

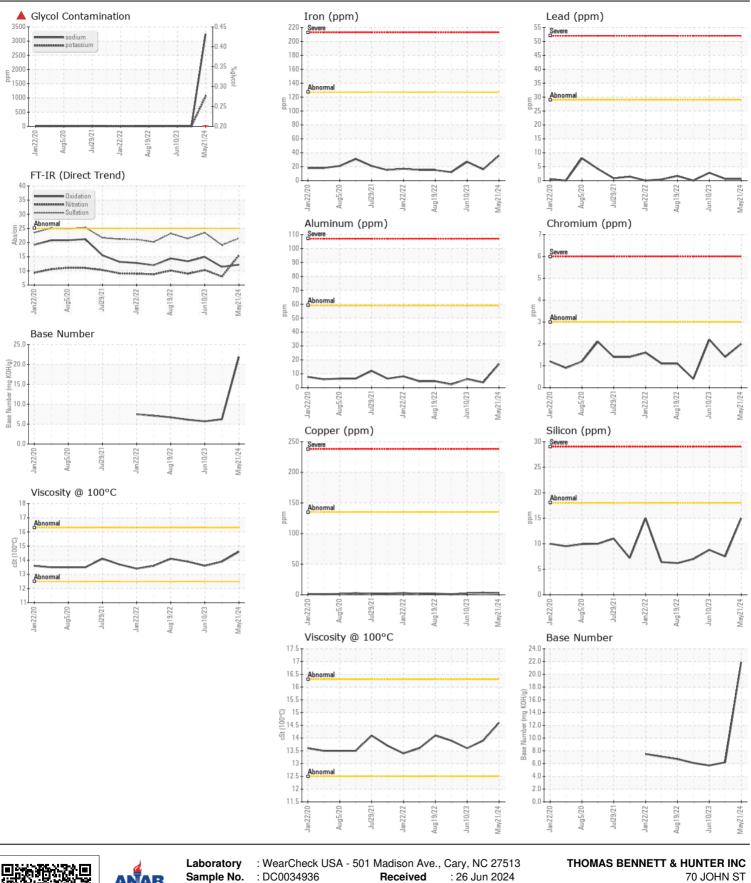
13.6

12.2

21.9

14.6

WEAR NORMAL CONTAMINATION SEVERE FLUID CONDITION ATTENTION



Sample No. Lab Number : 06221057 WESTMINSTER, MD Tested : 28 Jun 2024 : 28 Jun 2024 - Wes Davis US 21157 Unique Number : 11099254 Diagnosed Test Package : MOB 1 (Additional Tests: Glycol, TBN) Contact: JOE STEPHAN Certificate L2367 jstephan@tbhconcrete.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: (410)848-9030 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (410)848-9032

Contact/Location: JOE STEPHAN - THOWESMD Page 2 of 2