

PERFORMANCE SPECIFICATIONS

Section 2.4
Page 13

T 444E/175 HP @ 2300 RPM
[49 State 1994 1/2 Model Year]

PERFORMANCE SPECIFICATIONS

Engine/Model	T 444E/A175F
Engine rating	175 BHP @ 2300 RPM
Engine Family Rating Code (EFRC)	2151
Injector Part Number Original Equipment	1 816 187 C3
Turbocharger Part Number (With Exhaust Back Pressure Device)	1 823 554 C91
A/R Ratio	1.0
Turbocharger Part Number (Without Exhaust Back Pressure Device)	1 823 553 C91
A/R Ratio	1.0
Injection Timing	Not-Adjustable
High Idle Speed – RPM with manual transmission	2500 + 50
High Idle Speed – RPM with automatic transmission	2500 + 200
Low Idle Speed – RPM	700 ± 50
Injection Control Pressure/Voltage @ Low Idle No Load	590 ± 50 psi (4.00 ± 0.3 MPa) (0.94 ± 0.1 Volts)
Injection Control Pressure/Voltage @ High Idle No Load	1020 ± 100 psi (7.10 ± 0.7 MPa) (1.40 ± 0.2 Volts)
Injection Control Pressure/Voltage @ Rated Speed and Full Load	2470 ± 150 psi (17.0 ± 1.0 MPa) (3.15 ± 0.3 Volts)
Intake and Exhaust Valve Clearance (Engine Off – Hot or Cold) Intake	Not-Adjustable
Exhaust	Not-Adjustable

PERFORMANCE SPECIFICATIONS

T 444E/175 HP @ 2300 RPM
[49 State 1994 1/2 Model Year]

PERFORMANCE SPECIFICATIONS CONTINUED

The following data to be taken at high idle with [no load].

Air Cleaner Restriction* [Measured @ Air Cleaner Outlet]	
(Check at High Idle [No Load]) – Max	12.5 in. H ₂ O (3.13 kPa)
(Check at Full Load, Rated Speed) – Max	25 in. H ₂ O (6.25 kPa)
Fuel Pressure [Minimum]*	20 psi (138 kPa)
Fuel Inlet Restriction Maximum*	6 in. Hg. Vacuum (20.261 kPa)
(Requires Stabilized	
Crankcase Pressure [Maximum]*	6.0 in. H ₂ O** (2.0 kPa)
Operating Temperature)	

The following data to be taken at full load, full throttle rated engine speed on chassis dynamometer or on highway.

Intake Manifold Pressure*	15.0 psi ± 2.0 psi (103 kPa ± 14 kPa) @ 2300
	6.0 psi ± 2.0 psi (42 kPa ± 14 kPa) @ 1500
Exhaust Back Pressure (After Turbocharger [Maximum])*	0–27 in.H ₂ O (6.7 kPa)
Smoke Level Max* – Bosch Number	1.3 @ 2300 RPM
	1.3 @ 1500 RPM

Measure water temperature differential across the radiator with engine on a chassis dynamometer, at full load and ambient temperature of 80°F or above.

Water Temperature Differential Across Radiator	6–12°F (3.3–6.6°C)
--	--------------------

The following data to be taken after engine reaches stabilized operating temperature.

Lube Oil Temperature (Oil Gallery)	230°F (110°C) Max.
Lube Oil Pressure at Operating Temperature	
Low Idle (Min.)	10–30 psi (137–344 kPa)
Rated Speed (Min./Max.)	40–70 psi (276–483 kPa)

*Engine must be at normal operating temperature.

**Crankcase pressure [maximum] as measured with Orificed Restrictor Tool ZTSE4146.

PERFORMANCE SPECIFICATIONS

Section 2.4
Page 15

T 444E/175 HP @ 2300 RPM
[California 1994 1/2 Model Year]

PERFORMANCE SPECIFICATIONS

Engine/Model	T 444E/A175C
Engine rating	175 BHP @ 2300 RPM
Engine Family Rating Code (EFRC)	2121
Injector Part Number Original Equipment	1 816 187 C3
Turbocharger Part Number (With Exhaust Back Pressure Device)	1 823 554 C91
A/R Ratio	1.0
Turbocharger Part Number (Without Exhaust Back Pressure Device)	1 823 553 C91
A/R Ratio	1.0
Injection Timing	Not-Adjustable
High Idle Speed – RPM with manual transmission	2500 + 50
High Idle Speed – RPM with automatic transmission	2500 + 200
Low Idle Speed – RPM	700 ± 50
Injection Control Pressure/Voltage @ Low Idle No Load	590 ± 50 psi (4.00 ± 0.3 MPa) (0.94 ± 0.1 Volts)
Injection Control Pressure/Voltage @ High Idle No Load	1020 ± 100 psi (7.10 ± 0.7 MPa) (1.40 ± 0.2 Volts)
Injection Control Pressure/Voltage @ Rated Speed and Full Load	2470 ± 150 psi (17.0 ± 1.0 MPa) (3.15 ± 0.3 Volts)
Intake and Exhaust Valve Clearance (Engine Off – Hot or Cold) Intake	Not-Adjustable
Exhaust	Not-Adjustable

PERFORMANCE SPECIFICATIONS

T 444E/175 HP @ 2300 RPM
[California 1994 1/2 Model Year]

PERFORMANCE SPECIFICATIONS CONTINUED

The following data to be taken at high idle with [no load].

Air Cleaner Restriction* [Measured @ Air Cleaner Outlet]	
(Check at High Idle [No Load]) – Max	12.5 in. H ₂ O (3.13 kPa)
(Check at Full Load, Rated Speed) – Max	25 in. H ₂ O (6.25 kPa)
Fuel Pressure [Minimum]*	20 psi (138 kPa)
Fuel Inlet Restriction Maximum*	6 in. Hg. Vacuum (20.261 kPa)
	(Requires Stabilized
Crankcase Pressure [Maximum]*	6.0 in. H ₂ O** (2.0 kPa)
	Operating Temperature)

The following data to be taken at full load, full throttle rated engine speed on chassis dynamometer or on highway.

	15.0 psi ± 2.0 psi (103 kPa ± 14 kPa) @ 2300
Intake Manifold Pressure*	6.0 psi ± 2.0 psi (42 kPa ± 14 kPa) @ 1500
Exhaust Back Pressure (After Turbocharger [Maximum])*	0–27 in.H ₂ O (6.7 kPa)
Smoke Level Max* – Bosch Number	1.3 @ 2300 RPM
	1.3 @ 1500 RPM

Measure water temperature differential across the radiator with engine on a chassis dynamometer, at full load and ambient temperature of 80°F or above.

Water Temperature Differential Across Radiator	6–12°F (3.3–6.6°C)
--	--------------------

The following data to be taken after engine reaches stabilized operating temperature.

Lube Oil Temperature (Oil Gallery)	230°F (110°C) Max.
Lube Oil Pressure at Operating Temperature	
Low Idle (Min.)	10–30 psi (137–344 kPa)
Rated Speed (Min./Max.)	40–70 psi (276–483 kPa)

*Engine must be at normal operating temperature.

**Crankcase pressure [maximum] as measured with Orificed Restrictor Tool ZTSE4146.

PERFORMANCE SPECIFICATIONS

Section 2.4
Page 17

T 444E/190 HP @ 2300 RPM
[49 State 1994 1/2 Model Year]

PERFORMANCE SPECIFICATIONS

Engine/Model T 444E/A190F

Engine rating 190 BHP @ 2300 RPM

Engine Family Rating Code (EFRC) 2161

Injector Part Number
Original Equipment 1 816 187 C3

Turbocharger Part Number (With Exhaust Back Pressure Device) 1 823 554 C91
A/R Ratio 1.0

Turbocharger Part Number (Without Exhaust Back Pressure Device) 1 823 553 C91
A/R Ratio 1.0

Injection Timing Not-Adjustable

High Idle Speed – RPM with manual transmission 2500 + 50

High Idle Speed – RPM with automatic transmission 2500 + 200

Low Idle Speed – RPM 700 ± 50

Injection Control Pressure/Voltage
@ Low Idle No Load 590 ± 50 psi (4.00 ± 0.3 MPa) (0.94 ± 0.1 Volts)

Injection Control Pressure/Voltage
@ High Idle No Load 1020 ± 100 psi (7.10 ± 0.7 MPa) (1.40 ± 0.2 Volts)

Injection Control Pressure/Voltage
@ Rated Speed and Full Load 2470 ± 150 psi (17.0 ± 1.0 MPa) (3.15 ± 0.3 Volts)

Intake and Exhaust Valve Clearance (Engine Off – Hot or Cold)
Intake Not-Adjustable
Exhaust Not-Adjustable

PERFORMANCE SPECIFICATIONS

T 444E/190 HP @ 2300 RPM
[49 State 1994 1/2 Model Year]

PERFORMANCE SPECIFICATIONS CONTINUED

The following data to be taken at high idle with [no load].

Air Cleaner Restriction* [Measured @ Air Cleaner Outlet]	
(Check at High Idle [No Load]) – Max	12.5 in. H ₂ O (3.13 kPa)
(Check at Full Load, Rated Speed) – Max	25 in. H ₂ O (6.25 kPa)
Fuel Pressure [Minimum]*	20 psi (138 kPa)
Fuel Inlet Restriction Maximum*	6 in. Hg. Vacuum (20.261 kPa)
(Requires Stabilized	
Crankcase Pressure [Maximum]*	6.0 in. H ₂ O** (2.0 kPa)
Operating Temperature)	

The following data to be taken at full load, full throttle rated engine speed on chassis dynamometer or on highway.

Intake Manifold Pressure*	16.0 psi ± 2.0 psi (110 kPa ± 14 kPa) @ 2300
	7.0 psi ± 2.0 psi (48 kPa ± 14 kPa) @ 1500
Exhaust Back Pressure (After Turbocharger [Maximum])*	0–27 in.H ₂ O (6.7 kPa)
Smoke Level Max* – Bosch Number	1.3 @ 2300 RPM
	1.3 @ 1500 RPM

Measure water temperature differential across the radiator with engine on a chassis dynamometer, at full load and ambient temperature of 80°F or above.

Water Temperature Differential Across Radiator	6–12°F (3.3–6.6°C)
--	--------------------

The following data to be taken after engine reaches stabilized operating temperature.

Lube Oil Temperature (Oil Gallery)	230°F (110°C) Max.
Lube Oil Pressure at Operating Temperature	
Low Idle (Min.)	10–30 psi (137–344 kPa)
Rated Speed (Min./Max.)	40–70 psi (276–483 kPa)

*Engine must be at normal operating temperature.

**Crankcase pressure [maximum] as measured with Orificed Restrictor Tool ZTSE4146.

PERFORMANCE SPECIFICATIONS

Section 2.4
Page 19

T 444E/190 HP @ 2300 RPM
[California 1994 1/2 Model Year]

PERFORMANCE SPECIFICATIONS

Engine/Model	T 444E/A190C
Engine rating	190 BHP @ 2300 RPM
Engine Family Rating Code (EFRC)	2131
Injector Part Number Original Equipment	1 816 187 C3
Turbocharger Part Number (With Exhaust Back Pressure Device)	1 823 554 C91
A/R Ratio	1.0
Turbocharger Part Number (Without Exhaust Back Pressure Device)	1 823 553 C91
A/R Ratio	1.0
Injection Timing	Not-Adjustable
High Idle Speed – RPM with manual transmission	2500 + 50
High Idle Speed – RPM with automatic transmission	2500 + 200
Low Idle Speed – RPM	700 ± 50
Injection Control Pressure/Voltage @ Low Idle No Load	590 ± 50 psi (4.00 ± 0.3 MPa) (0.94 ± 0.1 Volts)
Injection Control Pressure/Voltage @ High Idle No Load	1020 ± 100 psi (7.10 ± 0.7 MPa) (1.40 ± 0.2 Volts)
Injection Control Pressure/Voltage @ Rated Speed and Full Load	2470 ± 150 psi (17.0 ± 1.0 MPa) (3.15 ± 0.3 Volts)
Intake and Exhaust Valve Clearance (Engine Off – Hot or Cold) Intake	Not-Adjustable
Exhaust	Not-Adjustable

PERFORMANCE SPECIFICATIONS

T 444E/190 HP @ 2300 RPM
[California 1994 1/2 Model Year]

PERFORMANCE SPECIFICATIONS CONTINUED

The following data to be taken at high idle with [no load].

Air Cleaner Restriction* [Measured @ Air Cleaner Outlet]	
(Check at High Idle [No Load]) – Max	12.5 in. H ₂ O (3.13 kPa)
(Check at Full Load, Rated Speed) – Max	25 in. H ₂ O (6.25 kPa)
Fuel Pressure [Minimum]*	20 psi (138 kPa)
Fuel Inlet Restriction Maximum*	6 in. Hg. Vacuum (20.261 kPa)
Crankcase Pressure [Maximum]*	(Requires Stabilized Operating Temperature) 6.0 in. H ₂ O** (2.0 kPa)

The following data to be taken at full load, full throttle rated engine speed on chassis dynamometer or on highway.

Intake Manifold Pressure*	16.0 psi ± 2.0 psi (110 kPa ± 14 kPa) @ 2300 7.0 psi ± 2.0 psi (48 kPa ± 14 kPa) @ 1500
Exhaust Back Pressure (After Turbocharger [Maximum])*	0–27 in.H ₂ O (6.7 kPa)
Smoke Level Max* – Bosch Number	1.3 @ 2300 RPM 1.3 @ 1500 RPM

Measure water temperature differential across the radiator with engine on a chassis dynamometer, at full load and ambient temperature of 80°F or above.

Water Temperature Differential Across Radiator	6–12°F (3.3–6.6°C)
--	--------------------

The following data to be taken after engine reaches stabilized operating temperature.

Lube Oil Temperature (Oil Gallery)	230°F (110°C) Max.
Lube Oil Pressure at Operating Temperature	
Low Idle (Min.)	10–30 psi (137–344 kPa)
Rated Speed (Min./Max.)	40–70 psi (276–483 kPa)

*Engine must be at normal operating temperature.

**Crankcase pressure [maximum] as measured with Orificed Restrictor Tool ZTSE4146.