

# PERFORMANCE SPECIFICATIONS

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T 444E/160 HP @ 2600 RPM  
[49 State 1994 Model Year]

## PERFORMANCE SPECIFICATIONS

Engine/Model .....	T 444E/A160F
Engine rating .....	160 BHP @ 2600 RPM
Engine Family Rating Code (EFRC) .....	2141
Injector Part Number Original Equipment .....	1 816 187 C2/C3
Turbocharger Part Number (With Exhaust Back Pressure Device) .....	1 824 703 C91
A/R Ratio .....	.84
Turbocharger Part Number (Without Exhaust Back Pressure Device) .....	1 824 704 C91
A/R Ratio .....	.84
Injection Timing .....	Not-Adjustable
High Idle Speed – RPM with manual transmission .....	2600 + 50
High Idle Speed – RPM with automatic transmission .....	2600 + 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/160 HP @ 2600 RPM  
[49 State 1994 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<sub>2</sub>O (3.13 kPa)  
(Check at Full Load, Rated Speed) – Max ..... 25 in. H<sub>2</sub>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<sub>2</sub>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  $\pm$  2.0 psi (103 kPa  $\pm$  14 kPa) @ 2600  
..... 6.0 psi  $\pm$  2.0 psi ( 42 kPa  $\pm$  14 kPa) @ 1500

Exhaust Back Pressure (After Turbocharger [Maximum])\* ..... 0–27 in.H<sub>2</sub>O (6.7 kPa)

Smoke Level Max\* – Bosch Number ..... 1.3 @ 2600 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.

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**T 444E/160 HP @ 2600 RPM**  
**[49 State 1994 Model Year]**

## PERFORMANCE SPECIFICATIONS

Engine/Model .....	T 444E/A160C
Engine rating .....	160 BHP @ 2600 RPM
Engine Family Rating Code (EFRC) .....	2111
Injector Part Number Original Equipment .....	1 816 187 C2/C3
Turbocharger Part Number (With Exhaust Back Pressure Device) .....	1 824 703 C91
A/R Ratio .....	.84
Turbocharger Part Number (Without Exhaust Back Pressure Device) .....	1 824 704 C91
A/R Ratio .....	.84
Injection Timing .....	Not-Adjustable
High Idle Speed – RPM with manual transmission .....	2600 + 50
High Idle Speed – RPM with automatic transmission .....	2600 + 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/160 HP @ 2600 RPM  
[California 1994 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 <sub>2</sub> O (3.13 kPa)
(Check at Full Load, Rated Speed) – Max	25 in. H <sub>2</sub> 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 <sub>2</sub> 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) @ 2600	
Intake Manifold Pressure*	6.0 psi ± 2.0 psi ( 42 kPa ± 14 kPa) @ 1500
Exhaust Back Pressure (After Turbocharger [Maximum])*	0–27 in.H <sub>2</sub> O (6.7 kPa)
Smoke Level Max* – Bosch Number	1.3 @ 2600 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)
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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

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T 444E/175 HP @ 2600 RPM  
[49 State 1994 Model Year]

## PERFORMANCE SPECIFICATIONS

Engine/Model .....	T 444E/A175F
Engine rating .....	175 BHP @ 2600 RPM
Engine Family Rating Code (EFRC) .....	2151
Injector Part Number Original Equipment .....	1 816 187 C2/C3
Turbocharger Part Number (With Exhaust Back Pressure Device) .....	1 824 703 C91
A/R Ratio .....	.84
Turbocharger Part Number (Without Exhaust Back Pressure Device) .....	1 824 704 C91
A/R Ratio .....	.84
Injection Timing .....	Not-Adjustable
High Idle Speed – RPM with manual transmission .....	2600 + 50
High Idle Speed – RPM with automatic transmission .....	2600 + 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 @ 2600 RPM  
[49 State 1994 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 <sub>2</sub> O (3.13 kPa)
(Check at Full Load, Rated Speed) – Max	25 in. H <sub>2</sub> 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 <sub>2</sub> 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.

17.0 psi ± 2.0 psi (117 kPa ± 14 kPa) @ 2600	
Intake Manifold Pressure*	6.0 psi ± 2.0 psi ( 42 kPa ± 14 kPa) @ 1500
Exhaust Back Pressure (After Turbocharger [Maximum])*	0–27 in.H <sub>2</sub> O (6.7 kPa)
Smoke Level Max* – Bosch Number	1.3 @ 2600 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)
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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

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**T 444E/175 HP @ 2600 RPM**  
**[California 1994 Model Year]**

## PERFORMANCE SPECIFICATIONS

Engine/Model ..... T 444E/A175C

Engine rating ..... 175 BHP @ 2600 RPM

Engine Family Rating Code (EFRC) ..... 2121

Injector Part Number  
Original Equipment ..... 1 816 187 C2/C3

Injection Timing ..... Not-Adjustable

Turbocharger Part Number (With Exhaust Back Pressure Device) ..... 1 824 703 C91  
A/R Ratio ..... .84

Turbocharger Part Number (Without Exhaust Back Pressure Device) ..... 1 824 704 C91  
A/R Ratio ..... .84

High Idle Speed – RPM with manual transmission ..... 2600 + 50

High Idle Speed – RPM with automatic transmission ..... 2600 + 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 @ 2600 RPM  
[California 1994 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 <sub>2</sub> O (3.13 kPa)
(Check at Full Load, Rated Speed) – Max	25 in. H <sub>2</sub> 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 <sub>2</sub> 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*	17.0 psi ± 2.0 psi (117 kPa ± 14 kPa) @ 2600 6.0 psi ± 2.0 psi ( 42 kPa ± 14 kPa) @ 1500
Exhaust Back Pressure (After Turbocharger [Maximum])*	0–27 in.H <sub>2</sub> O (6.7 kPa)
Smoke Level Max* – Bosch Number	1.3 @ 2600 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)
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**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

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T 444E/190 HP @ 2600 RPM  
[49 State 1994 Model Year]

## PERFORMANCE SPECIFICATIONS

Engine/Model .....	T 444E/A190F
Engine rating .....	190 BHP @ 2600 RPM
Engine Family Rating Code (EFRC) .....	2161
Injector Part Number Original Equipment .....	1 816 187 C2/C3
Injection Timing .....	Not-Adjustable
Turbocharger Part Number (With Exhaust Back Pressure Device) .....	1 824 703 C91
A/R Ratio .....	.84
Turbocharger Part Number (Without Exhaust Back Pressure Device) .....	1 824 704 C91
A/R Ratio .....	.84
High Idle Speed – RPM with manual transmission .....	2600 + 50
High Idle Speed – RPM with automatic transmission .....	2600 + 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 @ 2600 RPM  
[49 State 1994 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 <sub>2</sub> O (3.13 kPa)
(Check at Full Load, Rated Speed) – Max	25 in. H <sub>2</sub> 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 <sub>2</sub> 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*	18.0 psi ± 2.0 psi (124 kPa ± 14 kPa) @ 2600
	7.0 psi ± 2.0 psi ( 48 kPa ± 14 kPa) @ 1500
Exhaust Back Pressure (After Turbocharger [Maximum])*	0–27 in.H <sub>2</sub> O (6.7 kPa)
Smoke Level Max* – Bosch Number	1.3 @ 2600 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)
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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

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T 444E/190 HP @ 2600 RPM  
[California 1994 Model Year]

## PERFORMANCE SPECIFICATIONS

Engine/Model .....	T 444E/A190C
Engine rating .....	190 BHP @ 2600 RPM
Engine Family Rating Code (EFRC) .....	2131
Injector Part Number Original Equipment .....	1 816 187 C2/C3
Turbocharger Part Number (With Exhaust Back Pressure Device) .....	1 824 703 C91
A/R Ratio .....	.84
Turbocharger Part Number (Without Exhaust Back Pressure Device) .....	1 824 704 C91
A/R Ratio .....	.84
Injection Timing .....	Not-Adjustable
High Idle Speed – RPM with manual transmission .....	2600 + 50
High Idle Speed – RPM with automatic transmission .....	2600 + 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 @ 2600 RPM  
[California 1994 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<sub>2</sub>O (3.13 kPa)  
(Check at Full Load, Rated Speed) – Max ..... 25 in. H<sub>2</sub>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<sub>2</sub>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\* ..... 18.0 psi ± 2.0 psi (124 kPa ± 14 kPa) @ 2600  
..... 7.0 psi ± 2.0 psi ( 48 kPa ± 14 kPa) @ 1500

Exhaust Back Pressure (After Turbocharger [Maximum])\* ..... 0–27 in.H<sub>2</sub>O (6.7 kPa)

Smoke Level Max\* – Bosch Number ..... 1.3 @ 2600 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.