# MP8 · US 10

# **FEATURES**

- Super Econodyne™ Diesel Engine
- Cooled Exhaust Gas Recirculation (CEGR)
- Maximum Horsepower 445 BHP [332 kW]
- Electronic Unit Fuel Injection with Rate Shaping
- V-MAC IV Total Vehicle Electronics System
- Wide Operating Range 1050-1800 RPM
- Chassis Mounted Charge Air Cooled
- Variable Geometry Turbocharger
- Extended Service Intervals
- MACK PowerLeash Engine Brake

## **SPECIFICATIONS**

Peak HP (kW) @ RPM
HP [kW] @ Governed RPM
Max. Torque lb. ft. [N•m] @ RPM1,760 [2 387] @ 1100-1300
Type Direct Injection Diesel
Number of Cylinders
Bore & Stroke, in. [mm]5.16 x 6.22 [131 x 158]
Displacement
Compression Ratio
Firing Order1-5-3-6-2-4
Torque Rise
Clutch Engagement 825 lb. ft. [1 120 N•m] @ 800 RPM
Idle Speeds:
Low Adjustable; 600 RPM
High
Engine Brake Retarding Power (If Applicable)
500 HP [372 kW] @ 2100 RPM
Weight, Dry: (Approx.) 2,676 lbs. [1 217 kg]
(With air compressor, but no oil, water, starter, fan, alternator, or clutch)

## V-MAC IV® FUNCTIONS

4th Generation Vehicle Management And Control System

#### **V-MAC IV PRODUCTIVITY FEATURES:**

PTO (4) and Electronic Hand Throttle Control Engine "Smart Fan Control" Integrated Sleeper Low Voltage Disconnect † "Smart Idle" Speed Regulator GuardDog Routine Maintenance Monitoring †

## V-MAC IV DRIVER CONVENIENCE FEATURES:

Full Featured Cruise Control Cruise 'n Brake Engine Brake Control Programmable Engine Governor Type Idle Cooldown Daytime Running Light (DRL) Override <sup>†</sup>

## V-MAC IV FUEL ECONOMY FEATURES:

Vehicle Speed Limiting Engine "Sweet Spot Indicator" Fuel Economy Incentive Program Idle Shutdown

#### V-MAC IV RELIABILITY FEATURES:

Engine Protection Starter Protection Differential Lock Auto Control

#### V-MAC IV FLEET MANAGEMENT FEATURES:

DataMax Comprehensive On-Board Data Logger



## V-MAC IV SAFETY AND SECURITY FEATURES:

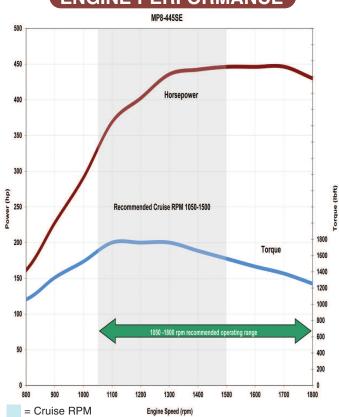
Speed Sensor Tamper Resistance Theft Deterrence 5th Wheel Slide Unlocked Vehicle Speed Limiting Air Suspension Deflated Vehicle Speed Limiting

### V-MAC IV SERVICEABILITY FEATURES:

SAE J1587 and J1939 Diagnostic Port Electronic Fault Logging with Fault Reporter VCADS PC Based Service Software

† Denotes an available option.

# **ENGINE PERFORMANCE**



## **ENGINE SPECIFICATIONS**

Flywheel Housing	Die cast Aluminum
Material	Alloyed Grey Cast Iron adder Frame Reinforcement
Cylinder Liners: Type	
Surface Finish	Plateau Honed
Type Grey Cast Iron Slab Head	d With
	Intermediate Deck
0 " "	Single Overhead Cam
Configuration	
Valve/Insert Material	
Pistons & Rings:	: Caper / may (Corviocable)
Piston Type Mono	
	w/Closed Cooling Gallery
Pin Diameter	
Rings 2 Crankshaft:	Compression, 1 Oil Control
Material	Forged Carbon Steel
Heat Treatment Induc	
Main Bearing Diameter	4.5" [114 mm]
Charge Air Cooling	
Fuel System Delphi	
Fuel Supply Pump	chnology and Rate Shaping
Filter	
Lubrication System:	,,,
TypeFull Pressure, Wet Sump	
Oil Filters 2 Spin-On Full Flow	
Oil Cooler	
	tional 33 qts. (Incl's. Filters)
Drain Plug	
Cooling System:	
Capacity	
Thermostats	
Air Compressor:	
Type	Meritor/WABCO
Standard Capacity:	
	18.7 cfm [8.9L/s]
Turbocharger Holset, S	oled Actuator and Bearings
deometry w/water 60	and Electronic Controls
Accessory Belt Poly	
EGR System	
Single EGR Valve Assembly N	
EGR Cooler	and Insert, Gas to Coolant
	and moent, Gas to Coolant

## **GEARING RECOMMENDATIONS**

Proper gearing is necessary to achieve optimum vehicle performance and fuel economy. Vehicle specifications, including engine, transmission, axle ratio, and tire selection, should generally be selected to meet the following criteria:

Startability	Highway Applications $\ldots \ge 10\%$ On-Off Highway Applications $\ldots \ge 16\%$
Gradeability	@ Cruise Max. MPH $\dots \ge 0.5\%$ @ Peak Torque, Top Gear $\dots \ge 1.5\%$
Cruise RPM	1050-1500 RPM*

<sup>\*</sup>Cruise RPM = Engine speed in top gear @ Desired Cruise Speed

Refer to the MACKTRAQ® electronic sales tool to obtain startability, gradeability and cruise RPM results for specific vehicle specifications. Special service applications, road surfaces, high GCW's or other factors may require different gearing considerations.

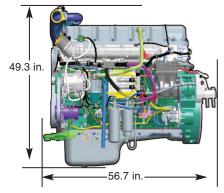
## **DIMENSIONS**

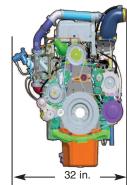
## **Conventional Chassis**

(CHU, CXU MODELS)

**LEFT SIDE VIEW** 

**FRONT VIEW** 





## OIL/FILTER SERVICE INTERVALS

Refer to the latest version of Mack Maintenance & Lubrication Manual TS494.

# **OPTIONAL EQUIPMENT\***

High Capacity Air Compressor 120 and 240 Volt Engine Block Heaters High Capacity Alternator



<sup>\*\*</sup> Availability may be chassis model dependent.