

# MACK

# ENGINE

## MP8 US07

### 455M

### FEATURES

- High Torque MAXIDYNE™ Diesel Engine
- Cooled Exhaust Gas Recirculation (CEGR)
- Maximum Horsepower 455 BHP [339 kW]
- Electronic Unit Fuel Injection with Rate Shaping
- V-MAC IV Total Vehicle Electronics System
- Wide Operating Range 1200-2100 RPM
- Chassis Mounted Charge Air Cooled
- Variable Geometry Turbocharger
- Extended Service Intervals
- MACK PowerLeash Engine Brake

### SPECIFICATIONS

Peak HP (kW) @ RPM	455 [339] @ 1500-1900
HP [kW] @ Governed RPM	420 [313] @ 2100
Max. Torque lb. ft. [N•m] @ RPM	1,650 [2 237] @ 1100-1300
Type	Direct Injection Diesel
Number of Cylinders	6, In-Line
Bore & Stroke, in. [mm]	5.16 x 6.22 [131 x 158]
Displacement	780 [13]
Compression Ratio	16:1
Firing Order	1-5-3-6-2-4
Torque Rise	59%
Clutch Engagement	860 lb. ft. [1 165 N•m] @ 800 RPM
Idle Speeds:	
Low	Adjustable; 650 RPM
High	Adjustable; 2100 RPM
Engine Brake Retarding Power (If Applicable)	
	435 HP [324 kW] @ 2100 RPM
Weight, Dry: (Approx.)	2,560 lbs. [1 161 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 †

#### V-MAC IV FUEL ECONOMY FEATURES:

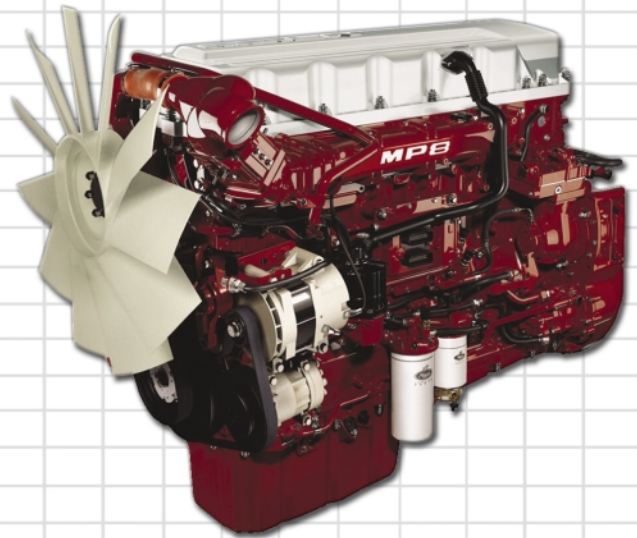
- Vehicle Speed Limiting
- Engine "Sweet Spot Indicator"
- Fuel Economy Incentive Program
- Idle Shutdown
- Integrated Temp-A-Start †

#### 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
- InfoMax PC Fleet Management Software



#### 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

