

MACK

ENGINE

MP8 US07

455E

FEATURES

- High Torque ECONODYNE™ 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 1200-1800 RPM
- Chassis Mounted Charge Air Cooled
- Variable Geometry Turbocharger
- Extended Service Intervals
- MACK PowerLeash Engine Brake

SPECIFICATIONS

| | |
|---|-----------------------------------|
| Peak HP (kW) @ RPM | 455 [339] @ 1500-1800 |
| HP [kW] @ Governed RPM | 455 [339] @ 1800 |
| Max. Torque lb. ft. [N·m] @ RPM | 1,660 [2 251] @ 1200 |
| 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 | 25% |
| 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:

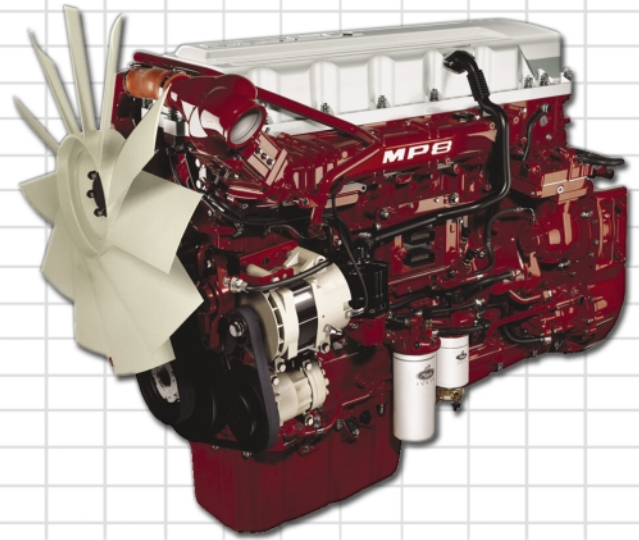
- Vehicle Speed Limiting
- Engine "Sweet Spot Indicator"
- Fuel Economy Incentive Program
- Idle Shutdown
- Integrated Temp-A-Start †

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

