



SED

PRODUCT INFORMATION

Sales Engineering

Mack Trucks, Inc.
Allentown, PA 18103
United States

MackTrucks.com

PID Code/Condition: 100-1756
Description: Mack MP7-395A US17
Date: September 15, 2016



FEATURES:

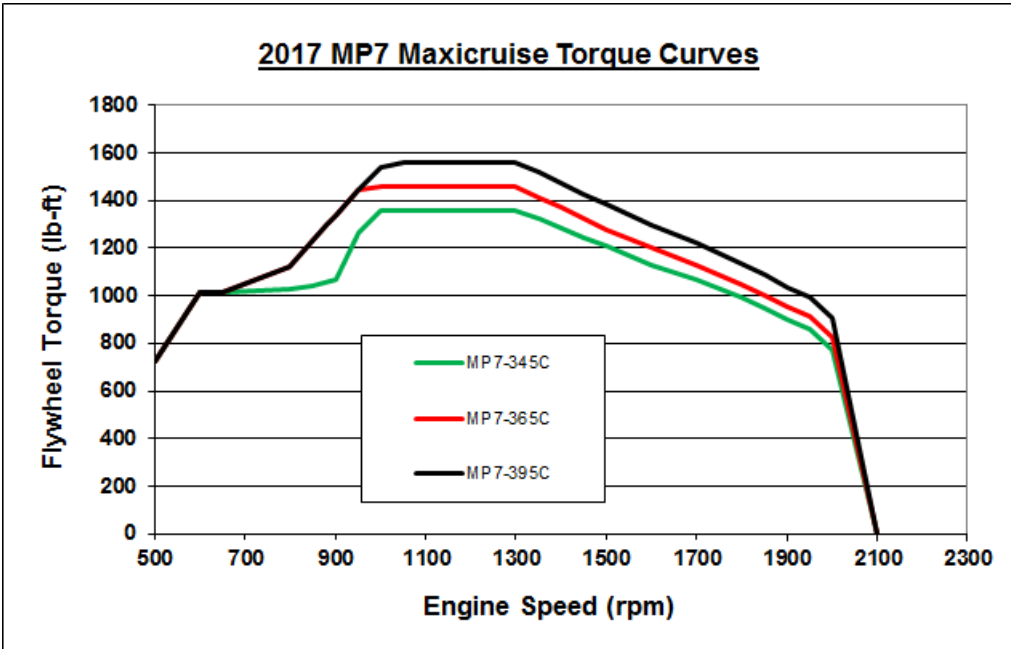
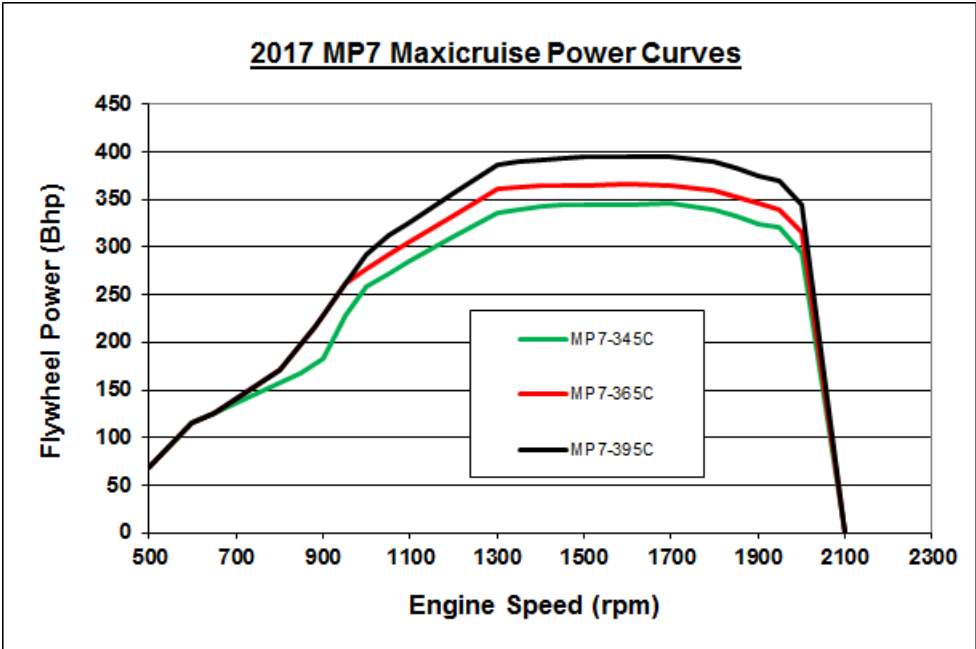
- High Torque MAXICRUISE Diesel Engine
- Maximum Horsepower 395 BHP [295 kW]
- Electronic Unit Fuel Injection
- V-MAC IV Total Vehicle Electronics System
- Wide Operating Range 600 – 2000 RPM
- Variable Geometry Turbocharger
- Extended Service Intervals
- MACK PowerLeash Engine Brake

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SPECIFICATIONS:

| | |
|---|--|
| Peak HP [kW] @ RPM | 395 [295] @ 1450 – 1700 |
| HP [kW] @ Governed RPM | 345 [235] @ 1950 |
| Max. Torque lb. ft. [Nm] @ RPM | 1560 [2115] @ 1050 - 1300 |
| Type | Direct Injection Diesel |
| Number of Cylinders | 6, In-Line |
| Bore & Stroke, inches [mm] | 4.84 X 5.98 [123 X 152] |
| Displacement, cubic inches [L] | 659 [11] |
| Compression Ratio | 16:1 |
| Firing Order | 1 - 5 - 3 - 6 - 2 - 4 |
| Torque Rise | 60% |
| Clutch Engagement . lb. ft. [Nm] @ RPM | 938 [1333] @ 800 |
| Idle Speeds: | |
| Low | Adjustable, 600 RPM |
| High | 2000 RPM |
| Engine Brake Retarding Power[If Applicable] | 420 HP [313 kW] @ 2000 RPM |
| Weight, Dry [Approximate] lbs. [kg] | 2286 [1037] |
| Flywheel Housing | Die Cast Aluminum |
| Cylinder Block . . . Alloyed Grey Cast Iron with Ladder Frame Reinforcement | |
| Cylinder Liners | Full Wet Design, Plateau Honed |
| Cylinder Head Assembly: | |
| Type | Grey Cast Iron Slab Head with Intermediate Deck |
| Configuration | Single Overhead Cam, 4 valves per Cylinder |
| Valve Type | Poppet |
| Valve Insert Material | Super Alloy [Serviceable] |
| Piston and Rings: | |
| Piston Type | Monotherm Single Piece Steel with Closed Cooling Gallery |
| Pin Diameter, inches [mm] | 2.125 [55] |
| Rings | 2 Compression, 1 Oil Control |
| Crankshaft: | |
| Material | Forged, Carbon Steel |
| Heat Treatment | Induction Hardened Journals/Fillet |
| Main Bearing Diameter inches [mm] | 4.5 [114] |
| Charge Air Cooling | Chassis Mounted, Air – To – Air |
| Fuel System | High Pressure F2 Common Rail |
| Fuel Supply Pump | ZF Meritor |
| Fuel Filter | Spin On, Disposable |

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- Lubrication System:
- Type Full Pressure, Wet Sump
 - Oil Filters 2 Spin On Full Flow Disposable, Single Bypass Disposable
 - Oil CoolerStainless Steel Plate
 - Total Oil Capacity32 Quarts, Includes Filters
 - Drain Plug Magnetic
- Cooling System:
- Capacity Quarts [L] 17 [16]
 - Thermostats 180 Degrees F, 82 Degrees C
 - Hose Material Mack Brand EPDM
- Air Compressor:
- TypeMeritor/WABCO
 - Standard Capacity:
 - GU7, & GU8 18.7 cfm [8.9L/s]
 - MRU, LR 37.4 cfm [17.8L/s]
- Turbocharger Holset, Sliding Nozzle Ring variable Geometry with Water Cooled Actuator and Bearings, and Electronic Controls
- Accessory BeltPoly – V with Automatic Tensioners
- EGR System:
- Single EGR Valve Assembly Modulated Cast Stainless Steel
 - EGR CoolerStainless Steel Tube and Insert Gas to Coolant

OIL/FILTER SERVICE INTERVALS:

Refer to the latest version of the Mack Maintenance and Lubrication Manual

OPTIONAL EQUIPMENT:

- High Capacity Air Compressor
- 120 Volt and 240 Volt Engine Block Heater
- Oil Pan Heater
- Oil Change System
- High Capacity Alternator
- Heavy Duty Air Cleaner [Model Specific]

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V-MAC IV FUNCTIONS:

4TH Generation **V**ehicle **M**anagement **A**nd **C**ontrol System

V-MAC IV PRODUCTIVITY FEATURES:

- PTO [4] and Electronic Hand Throttle Control
- Engine "Smart fan Control"
- "Smart Idle" Speed Regulator
- GuardDog Routine Maintenance Monitoring

V-MAC IV DRIVER CONVENIENCE FEATURES:

- Full Featured Cruise Control
- Cruise and Brake Engine Brake Control
- Programmable Engine Governor
- 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

V-MAC IV RELIABILITY FEATURES:

- Engine Protection
- Starter Protection
- Differential Lock Auto Control

V-MAC IV SAFETY AND SECURITY FEATURES:

- Tamper Resistant Speed Sensor
- Theft Deterrence
- 5th Wheel Slide Unlock 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
- OBD II Style Diagnostic Connector
- DataMax Comprehensive On-Board Data Logger

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GEARING RECOMMENDATIONS:

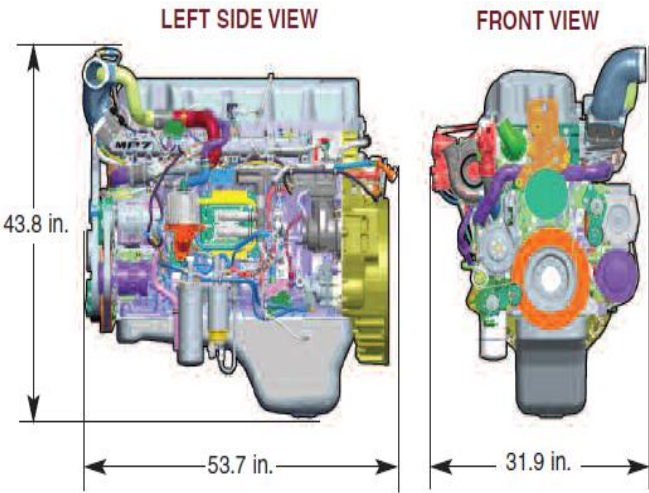
Proper Gearing is necessary to achieve optimum vehicle performance and fuel economy. Vehicle specifications, including engine, transmission, axle ratio, and tire selection should generally be selected to meet the following criteria:

| | | |
|--------------|---------------------------------------|--------------|
| Startability | Highway Applications | $\geq 10\%$ |
| | On-Off Highway Applications | $\geq 16\%$ |
| Gradeability | @ Cruise Max. MPH | $\geq 0.5\%$ |
| | @ Peak Torque, Top Gear | $\geq 1.5\%$ |
| Cruise RPM | 1400 +/- 50 RPM | |

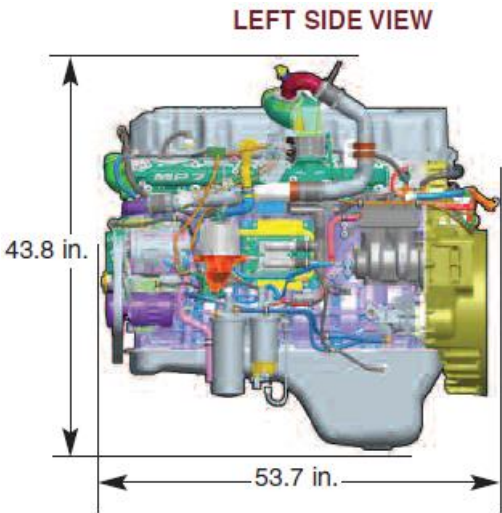
Refer to your current sales tool to obtain startability, gradeability and cruise RPM results for each unique vehicle specification. Special service applications, road surfaces, high Gross Combination Weights or other factors may require different gearing considerations.

DIMENSIONS:

Conventional Chassis



Low Cab Forward Chassis



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