



SED

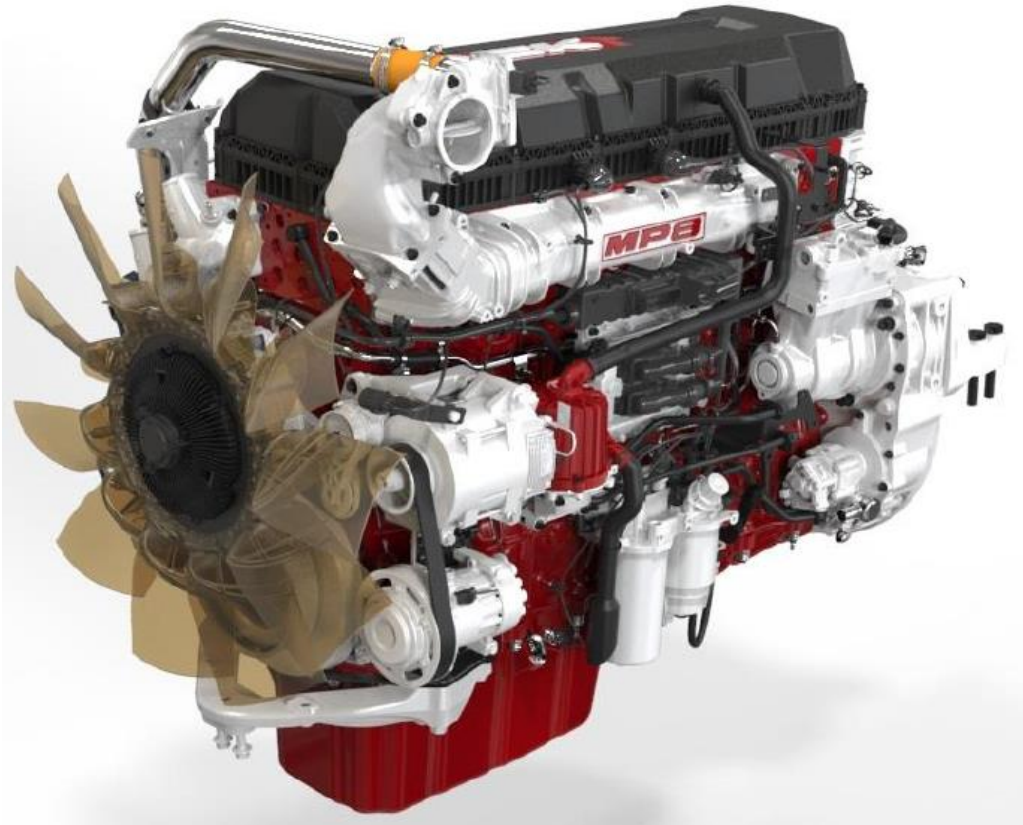
PRODUCT INFORMATION

Sales Engineering

Mack Trucks, Inc.
Allentown, PA 18103
United States

MackTrucks.com

PID Code/Condition: 100-1766
Description: Mack MP8-445C US17
Date: September 15, 2016



FEATURES:

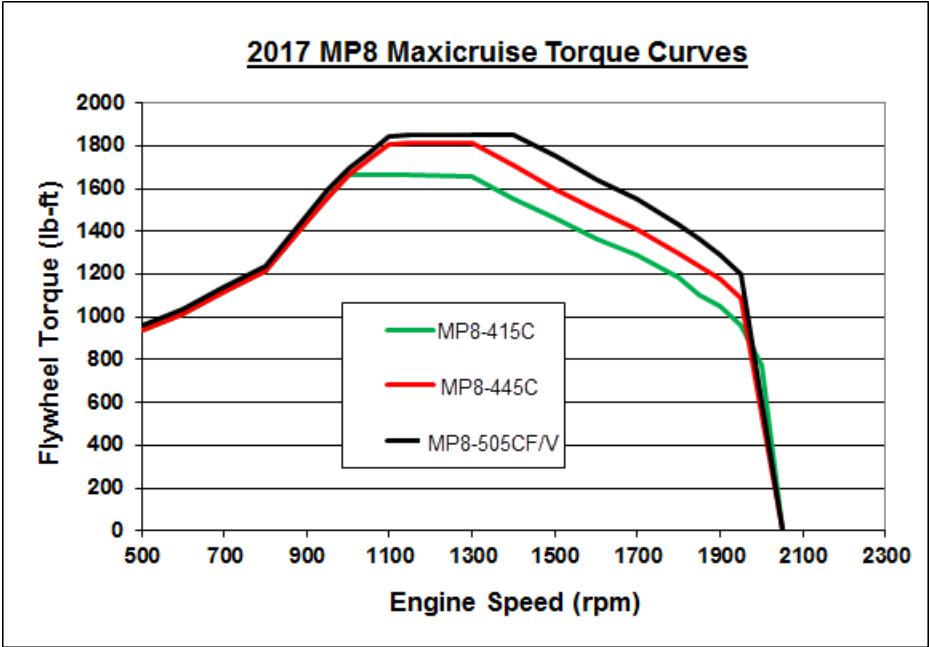
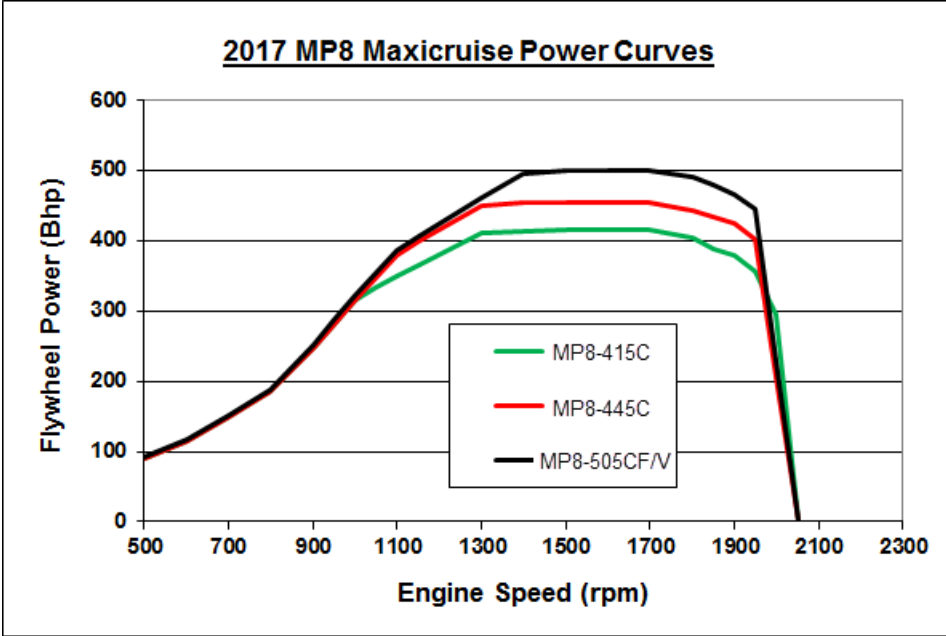
- High Torque MAXICRUISE Diesel Engine
- Maximum Horsepower 445 BHP [332 kW]
- Electronic Common Rail Fuel Injection
- V-MAC IV Total Vehicle Electronics System
- Wide Operating Range 600 – 2000 RPM
- Variable Geometry Turbocharger
- Extended Service Intervals
- MACK PowerLeash Engine Brake

The information in this document was accurate as of the date of release and pertains to the current version of Mack's Sales Tool. Mack Trucks, Inc. reserves the right to make changes in specifications, equipment or design, or to discontinue models or options without notice.



SED

PRODUCT INFORMATION



The information in this document was accurate as of the date of release and pertains to the current version of Mack's Sales Tool. Mack Trucks, Inc. reserves the right to make changes in specifications, equipment or design, or to discontinue models or options without notice.



SED

PRODUCT INFORMATION

SPECIFICATIONS:

Peak HP [kW] @ RPM	445 [332] @ 1300 – 1800
HP [kW] @ Governed RPM	207 [154] @ 2000
Max. Torque lb. ft. [Nm] @ RPM	1860 [2522] @ 1150 - 1300
Type	Direct Injection Diesel
Number of Cylinders	6, In-Line
Bore & Stroke, inches [mm]	5.16 X 6.22 [131 X 158]
Displacement, cubic inches [L]	780 [13]
Compression Ratio	16:1
Firing Order	1 - 5 - 3 - 6 - 2 - 4
Torque Rise	67%
Clutch Engagement . lb. ft. [Nm] @ RPM	1215 [1647] @ 800
Idle Speeds:	
Low	Adjustable, 600 RPM
High	2000 RPM
Engine Brake Retarding Power [If Applicable]	500 HP [372 kW] @ 2000 RPM
Weight, Dry [Approximate] lbs. [kg]	2597 [1177]
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

The information in this document was accurate as of the date of release and pertains to the current version of Mack's Sales Tool. Mack Trucks, Inc. reserves the right to make changes in specifications, equipment or design, or to discontinue models or options without notice.



SED

PRODUCT INFORMATION

Lubrication System:	
Type	Full Pressure, Wet Sump
Oil Filters	2 Spin On Full Flow Disposable, Single Bypass Disposable
Oil Cooler	Stainless Steel Plate
Total Oil Capacity	33 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:	
Type	Meritor/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 Belt	Poly – V with Automatic Tensioners
EGR System:	
Single EGR Valve Assembly	Modulated Cast Stainless Steel
EGR Cooler	Stainless 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]

The information in this document was accurate as of the date of release and pertains to the current version of Mack’s Sales Tool. Mack Trucks, Inc. reserves the right to make changes in specifications, equipment or design, or to discontinue models or options without notice.



SED

PRODUCT INFORMATION

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"
"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

The information in this document was accurate as of the date of release and pertains to the current version of Mack's Sales Tool. Mack Trucks, Inc. reserves the right to make changes in specifications, equipment or design, or to discontinue models or options without notice.



SED

PRODUCT INFORMATION

GEARING RECOMMENDATIONS:

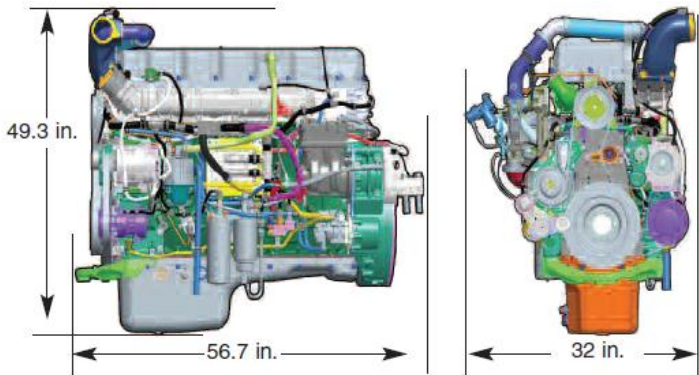
Proper Gearing is necessary to achieve optimum vehicle performance and fuel economy. Vehicle specifications, including engine, transmission, axle ratio, and tire selection should generally be selected to meet the following criteria:

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	

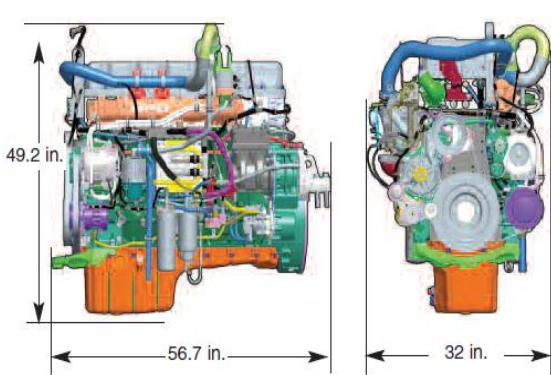
Refer to your current sales tool to obtain startability, gradeability and cruise RPM results for each unique vehicle specification. Special service applications, road surfaces, high Gross Combination Weights or other factors may require different gearing considerations.

DIMENSIONS:

Conventional Chassis



Low Cab Forward Chassis



The information in this document was accurate as of the date of release and pertains to the current version of Mack's Sales Tool. Mack Trucks, Inc. reserves the right to make changes in specifications, equipment or design, or to discontinue models or options without notice.