WHAT IS OCTANE?

Octane is a measure of how much temperature and pressure your fuel can withstand before igniting. The higher the octane rating, the less likely the fuel is to ignite prematurely.

SEE THOSE NUMBERS?

87 89 91

MINIMUM OCTANE RATING (87) / 2-STAR METHOD
MINIMUM OCTANE RATING (89) / 3-STAR METHOD
MINIMUM OCTANE RATING (91) / 4-STAR METHOD

HERE’S HOW IT WORKS

STEP 1: Air and fuel enter the cylinder
STEP 2: The cylinder compresses the air and fuel
STEP 3: The mixture is ignited, pushing the piston down and turning the crankshaft
STEP 4: The exhaust is pushed out

Higher octane allows for more compression, which increases efficiency and performance and reduces emissions, meaning you can:

- Use less fuel
- Get more power and go faster
- Reduce emissions by 35 million tons of CO2 in the US

But how do we get higher octane in our fuels? Well, we already have what we need—alcohol fuels like ethanol and methanol.

WANT TO LEARN MORE ABOUT OCTANE? CLICK HERE.