

Determination of the cetane number, derived cetane number, and cetane index for diesel fuel by additives

임영관*, 김종렬, 정충섭, 임의순, 김동길
한국석유관리원
(yklam92001@yahoo.co.kr*)

Cetane number is one of main properties for fuel ignition quality in diesel for compressed-ignition engine. Higher cetane number generally could be reduce combustion noise, improved cold-start performance, reduced hydrocarbon emissions and NO_x formation, and enhance the vehicle power and fuel efficiency. The cetane index have been replaced the cetane number in order to resolve the disadvantage of CFR engine test, but these two values have slightly differences. In this study, we analyzed the cetane number, derived cetane number and cetane index for diesel fuel which was blended with kerosene, biodiesel, and cetane improver as additives.