Abstract

Ahmed S. Hassan Noufal

??????? ????? ??????? ???? ??????? ??????? ?????? ?????? ?????? ???????

????? ????? ??????? ????? ?? ???????? ???? ??? ??? ??????? ???? ?????? ????? ???? ???? ????? ?????? ???? ??? ???, ????? ?? ??????? ??????? ????? ??????? ???? ??? ???, ??? ????? ?? ???? ???? ?? ???? ?? ??? ?????? ???????? ??????? ?? ???? ??? ???? ??????? ???? ???? ???? ????? ?????, ?? ????? ????? ???????? ?? ????? ?????? ?? ????? ????? ???? ???????? ??????? ?????? ??????, ?????? ?????? ????? ???????? ???????? ??????? ?????? ???? ????? ??????. ???????? ??? ??????? ????? ??????? ?? ??????? ???????, ????? ?? ?????? ????? ?????? ?? ??? ???????? ???????? ??????? ????????? ?? ????? ?? ???? ??????? ???? ????? ?? ????? ????? ??????, ??? ???? ????? ????? ??????? ???????? ???? ???? ?????? ???????? ???? ???? ?? ?????? ??????? American Petroleum Institute (API) 2011, ???????? ??? ???????? ???? ???? ?? ?????? ??????? ?? ??????, ?????? ??? ??? ??????? ?????? ????????. ????? ?? ?????? ?????? ?? ??? ??????? ???? ????? ????? ???? ?? ????? ??????? ????? ?????? ?? ????? ????? ???? ????? ?????? ?? ????? ??????? ????? ??????? ?????? ????? ??? ????? ???? ?? ???? ???? ????? ?????? ????? ?????????? ?????? ?? ?????? ?????????? ???????? ????? ?????? ???????(European Fuels Conference, 2011) ???? ????? ??? ????? ?????? ??????? ????? ??????? ????? ?? ??? ??????? ???? ?? ?????? ??????? ??? ?????? ??????? ?? ????? ???????, ??? ??? ???????? ??? ???? ????? ?? ??? ??????? ?? ??? ??????, ??? ??? ????? ???? ?????? ????? ??????? ????? ??? 46 ????? ???? ?????? ?? ??? 2000 ??? ??? 2014 ???? 12 ????? ????? (DNV GL. 2014)