ABSTRACT

HYDROCRACKING AND HYDRODEWAXING PROCESS

Process for reducing the wax content of wax-containing hydrocarbon feedstocks to produce middle distillate products including low freeze point fet fuel and/or low pour point and low cloud point diesel fuel and heating oil. The process comprises contacting the feedstock with a hydrocracking catalyst containing a carrier, at least one hydrogenation metal component selected from Group VIB and Group VIII metals, and a large pore zeolite, e.g., a Y type zeolite, in a hydrocracking zone in the presence of hydrogen at elevated temperature and pressure, and contacting the entire effluent from the hydrocracking zone with a dewaxing catalyst containing a crystalline, intermediate pore size molecular sieve selected from metallosilicates, e.g., borosilicates, ironsilicates, and aluminosilicates, and silicoaluminophosphates, e.g., SAPO-11, in a hydrodewaxing zone in the presence of hydrogen at elevated temperature and pressure.