

ABSTRACT OF THE INVENTION

A process for the production of a high viscosity index, low viscosity lubricating base oil having a kinematic viscosity of 3.0 to 7.5 mm²/s at 100°C, a viscosity index of 120 or more and a pour point of -10°C or less, while simultaneously producing a high quality fuel oil, which includes subjecting a mixture stock oil of (a) at least one of a heavy gas oil fraction and a vacuum gas oil fraction and (b) a slack wax to hydrocracking in the presence of an amorphous silica alumina catalyst, separating the cracked product into a fuel oil fraction and a lubricating oil fraction by atmospheric distillation, and subsequently subjecting the lubricating oil fraction to dewaxing, optionally applying at least one of solvent refining and hydrofinishing.

