

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 5.0 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 using at least one of a heavy gas oil fraction and a light vacuum gas oil fraction as a stock oil that contains about 60% by volume or more of distillate components within a distillation temperature range of from about 370 to about 480°C and about 50% by mass or more of saturated hydrocarbons, subjecting the stock oil 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.

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