

This Sheet Has Been Replaced



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LUBRICANT HYDROCRACKING PROCESS

ABSTRACT

5 A bottoms fraction of fuels hydrocracking which boils
above about 316°C (600°F) and contains at least about 10
wt.% aromatics is converted to a reduced aromatics lube
base stock product over a catalyst comprising a crystalline
material which exhibits unusually large sorption capacity
demonstrated by its benzene adsorption capacity of greater
10 than about 15 grams benzene/100 grams anhydrous crystal at
7 kPa (50 torr) and 25°C and a hydrogenation-
dehydrogenation functionality, preferably palladium, under
high pressure conditions sufficient to reduce the aromatics
content to about 10 wt.%. The bottoms fraction is dewaxed
prior to high pressure hydroprocessing over a catalyst
15 comprising HZSM-5 to reduce the pour point of the fraction
to -7°C (about 20 °F). Typically, the bottoms fraction is
produced in a moderate pressure fuels hydrocracking process
over a bifunctional amorphous catalyst.