WHAT IS CLAIMED IS:

1. A method for producing a lube basestock, comprising:

providing a first catalyst comprising at least one Group VIII metal supported on a catalyst support and having a density of 600 kg/m^3 or less;

providing a second catalyst comprising at least one Group VIII metal having sufficient dewaxing productivity to be able to process a light neutral (150N) hydrocarbon stream from a medium pressure hydrocracker having a kinematic viscosity at 100°C of less than 5 and a final boiling point of less than 550°C, at 320°C and 1 LHSV to produce a lube basestock having pour point less than -15°C and a VI of at least 160,

exposing a feedstock to the first catalyst under effective conditions for treating the feedstock, said effective conditions being effective for one of hydrotreating, hydrofinishing, or aromatic saturation; and

exposing the treated feedstock to the second catalyst under conditions effective for dewaxing the treated feedstock.

2. The method of claim 1, wherein the dewaxing catalyst comprises ZSM-48 with a SiO_2:Al_2O_3 ratio of from about 70 to about 110

3. The method of claim 1 wherein the dewaxing catalyst has a density of 600 kg/m^3 or less.

4. The method of claim 1, wherein the first catalyst comprises an M41S support.

5. The method of claim 1, wherein the first catalyst comprises MCM-41.

6. The method of claim 1, wherein the first catalyst has a density of 550 kg/m^3 or less.

7. The method of claim 1, wherein the first catalyst has a density of 500 kg/m^3 or less.

8. The method of claim 1, wherein the first catalyst comprises at least one Group VIII metal selected from Pt, Pd, and mixtures thereof.

9. The method of claim 8, wherein the first catalyst comprises at least 0.5 wt% of the at least one Group VIII metal.

10. The method of claim 1, further comprising exposing the dewaxed, treated feedstock to a third catalyst under conditions effective for hydrofinishing or aromatic saturation, said third catalyst having a density of 600 kg/m^3 or less.

11. The method of claim 10, wherein the third catalyst comprises MCM-41.

12. The method of claims 10, wherein the third catalyst has a density of 550 kg/m^{3}or less.

13. The method of any of claims 10, wherein the third catalyst comprises at least one Group VIII metal selected from Pt, Pd, and mixtures thereof.

14. The method of any of claims 10, wherein the third catalyst comprises at least 0.5 wt% of the at least one Group VIII metal.

CLAIMS

1. A method for producing a lube basestock, comprising:

exposing a hydrocracked feedstock to a first catalyst, said first catalyst comprising at least one Group VIII metal supported on an MCM-41 catalyst support having pore sizes from 15 to 100 Angstroms and having a density of 600 kg/m^3 or less, under effective conditions for treating the feedstock, said effective conditions being effective for hydrofinishing or aromatic saturation; and

exposing the treated feedstock to a catalyst comprising ZSM-48 having a SiO_2 : Al_2O_3 ratio of 95 or less and a metal hydrogenation component under conditions effective for dewaxing the treated feedstock, the ZSM-48 being free of non-ZSM-48 seed crystals, wherein the ZSM-48 crystals are free of crystals having a needle-like morphology.

2. The method of claim 1, wherein the first catalyst has a density of 550 kg/m^3 or less.

3. The method of claim 1, wherein the first catalyst has a density of 500 kg/m^3 or less.

4. The method of claim 1, wherein the first catalyst comprises at least one Group VIII metal selected from Pt, Pd, and mixtures thereof.

5. The method of claim 4, wherein the first catalyst comprises at least 0.5 wt % of the at least one Group VIII metal.

6. The method of claim 1, further comprising exposing the dewaxed, treated feedstock to a third catalyst under conditions effective for hydrofinishing or aromatic saturation, said third catalyst having a density of 600 kg/m^3 or less.

7. The method of claim 6, wherein the third catalyst comprises MCM-41.

8. The method of claim 6, wherein the third catalyst has a density of 550 kg/m^3 or less.

9. The method of claim 6, wherein the third catalyst comprises at least one Group VIII metal selected from Pt, Pd, and mixtures thereof.

10. The method of claim 6, wherein the third catalyst comprises at least 0.5 wt % of the at least one Group VIII metal.