CLAIMS

1. An integrated process to convert crude oil into petrochemical products comprising crude oil distillation, reforming, dearomatization, fluid catalytic cracking and aromatic ring opening, which process comprises:

(a) subjecting crude oil to crude oil distillation to produce naphtha and one or more of kerosene and gasoil;

(b) subjecting naphtha to reforming to produce reformer gasoline;

(c) subjecting kerosene and/or gasoil to dearomatization to produce a first stream enriched for alkanes and naphthenes and a second stream enriched for aromatics;

(d) subjecting the stream enriched for alkanes and naphthenes to pyrolysis to produce a pyrolysis gasoline or to fluid catalytic cracking to produce a FCC gasoline;

(e) subjecting the stream enriched for aromatics to aromatic ring opening to produce ARO gasoline;

(f) subjecting one or more of reformer gasoline, pyrolysis gasoline, FCC gasoline and ARO gasoline to gasoline treatment to produce BTX; and

(g) subjecting resid produced by crude oil distillation to resid upgrading to produce LPG and a resid upgrading liquid effluent, wherein the resid upgrading is hydrocracking.

2. The process according to claim 1, wherein at least 50 wt-% of the combined kerosene and gasoil produced by the crude oil distillation in the process is subjected to dearomatization.

3. The process according to claim 1, further comprising subjecting heavy-distillate comprised in the liquid resid upgrading effluent to fluid catalytic cracking to produce FCC gasoline stream that is subjected to gasoline treatment.

4. The process according to claim 1, wherein a middle-distillate produced by pyrolysis or fluid catalytic cracking is subjected to aromatic ring opening.

5. The according to claim 1, wherein the LPG is subjected to olefins synthesis to produce olefins.

6. The process according to claim 5, wherein the olefins synthesis comprises pyrolysis.

7. The process according to claim 1, wherein the gasoline treatment is gasoline hydrocracking comprising contacting one or more of reformer gasoline, pyrolysis gasoline, FCC gasoline and ARO gasoline in the presence of hydrogen with a hydrocracking catalyst under process under hydrocracking conditions.

8. The process according to claim 2, further comprising subjecting heavy-distillate comprised in the liquid resid upgrading effluent to fluid catalytic cracking to produce FCC gasoline stream that is subjected to gasoline treatment.

9. The process according to claim 2, wherein a middle-distillate produced by pyrolysis or fluid catalytic cracking is subjected to aromatic ring opening.

10. The according to claim 2, wherein the LPG is subjected to olefins synthesis to produce olefins.

11. The process according to claim 10, wherein the olefins synthesis comprises pyrolysis.

12. The process according to claim 2, wherein the gasoline treatment is gasoline hydrocracking comprising contacting one or more of reformer gasoline, pyrolysis gasoline, FCC gasoline and ARO gasoline in the presence of hydrogen with a hydrocracking catalyst under process under hydrocracking conditions.

13. The process according to claim 3, wherein the gasoline treatment is gasoline hydrocracking comprising contacting one or more of reformer gasoline, pyrolysis gasoline, FCC gasoline and ARO gasoline in the presence of hydrogen with a hydrocracking catalyst under process under hydrocracking conditions.

14. The process according to claim 4, wherein the gasoline treatment is gasoline hydrocracking comprising contacting one or more of reformer gasoline, pyrolysis gasoline, FCC gasoline and ARO gasoline in the presence of hydrogen with a hydrocracking catalyst under process under hydrocracking conditions.

15. The process according to claim 5, wherein the gasoline treatment is gasoline hydrocracking comprising contacting one or more of reformer gasoline, pyrolysis gasoline, FCC gasoline and ARO gasoline in the presence of hydrogen with a hydrocracking catalyst under process under hydrocracking conditions.

16. The process according to claim 6, wherein the gasoline treatment is gasoline hydrocracking comprising contacting one or more of reformer gasoline, pyrolysis gasoline, FCC gasoline and ARO gasoline in the presence of hydrogen with a hydrocracking catalyst under process under hydrocracking conditions.

17. The process according to claim 8, wherein the gasoline treatment is gasoline hydrocracking comprising contacting one or more of reformer gasoline, pyrolysis gasoline, FCC gasoline and ARO gasoline in the presence of hydrogen with a hydrocracking catalyst under process under hydrocracking conditions.

18. The process according to claim 9, wherein the gasoline treatment is gasoline hydrocracking comprising contacting one or more of reformer gasoline, pyrolysis gasoline, FCC gasoline and ARO gasoline in the presence of hydrogen with a hydrocracking catalyst under process under hydrocracking conditions.

19. The process according to claim 10, wherein the gasoline treatment is gasoline hydrocracking comprising contacting one or more of reformer gasoline, pyrolysis gasoline, FCC gasoline and ARO gasoline in the presence of hydrogen with a hydrocracking catalyst under process under hydrocracking conditions.

20. The process according to claim 11, wherein the gasoline treatment is gasoline hydrocracking comprising contacting one or more of reformer gasoline, pyrolysis gasoline, FCC gasoline and ARO gasoline in the presence of hydrogen with a hydrocracking catalyst under process under hydrocracking conditions.