CLAIMS

1. A marine fuel oil composition having a sulfur content of at most 0.50 wt. %, a solvent power (P_o) of at least 0.30, and a *P*-value of at least 1.15; wherein the marine fuel composition comprises:

(a) 15 wt. % or less of a residuum hydrocarbon component comprising at least one of solvent deasphalted residue, deasphalted oils, atmospheric tower bottoms, and vacuum tower bottoms;

(b) 15 to 70 wt. % of a crude oil;

(c) 25 to 75 wt. % of an aromatic feedstock component comprising at least one of ethylene cracker bottoms, slurry oil, heavy cycle oil, and light cycle oil; and

(d) 25 wt. % or less of a hydroprocessed hydrocarbon component comprising distillate.

2. The marine fuel oil composition of claim 1, wherein the residuum hydrocarbon component is present in an amount of from 5 to 12.5 wt. %.

3. The marine fuel oil composition of claim 1, wherein the crude oil is present in an amount of from 20 to 30 wt.% or from 40 to 60 wt. %.

4. The marine fuel oil composition of claim 1, wherein the crude oil has one or more of the following properties:

(a) an API gravity of 10° to 22.3°;

(b) a kinematic viscosity of 100 to 250 mm^2/s at 50°C;

(c) a density of 0.9350 to 0.9659 kg/m^3 at 15°C;

(d) a sulfur content of 2000 to 4000 wppm;

(d) a pour point of −10°C to 20°C; and

(e) a flash point of 50°C to 150°C.

5. The marine fuel oil composition of claim 1, wherein the aromatic feedstock component is present in an amount of from 30 to 50 wt. %.

6. The marine fuel oil composition of claim 1, wherein the solvent power is at least 0.45.

7. The marine fuel oil composition of claim 1, wherein the *P*-value is at least 1.30.

8. The marine fuel oil composition of claim 1, having one or more properties selected from the group consisting of:

(a) a maximum kinematic viscosity at 50°C (ISO 3104) of 10.00 to 700.0 mm^2/s;

(b) a maximum density at 15°C (ISO 3675) of 920 to 1010.0 kg/m^3;

(c) a maximum CCAI of 850 to 870;

(d) a minimum flash point (ISO 2719) of 60.0°C;

(e) a maximum total sediment – aged (ISO 10307-2) of 0.10 wt. %;

(f) a maximum carbon residue – micro method (ISO 10370) of 2.50 to 20.00 wt.%; and

(g) a maximum aluminum plus silicon (ISO 10478) content of 25 to 60 mg/kg.