

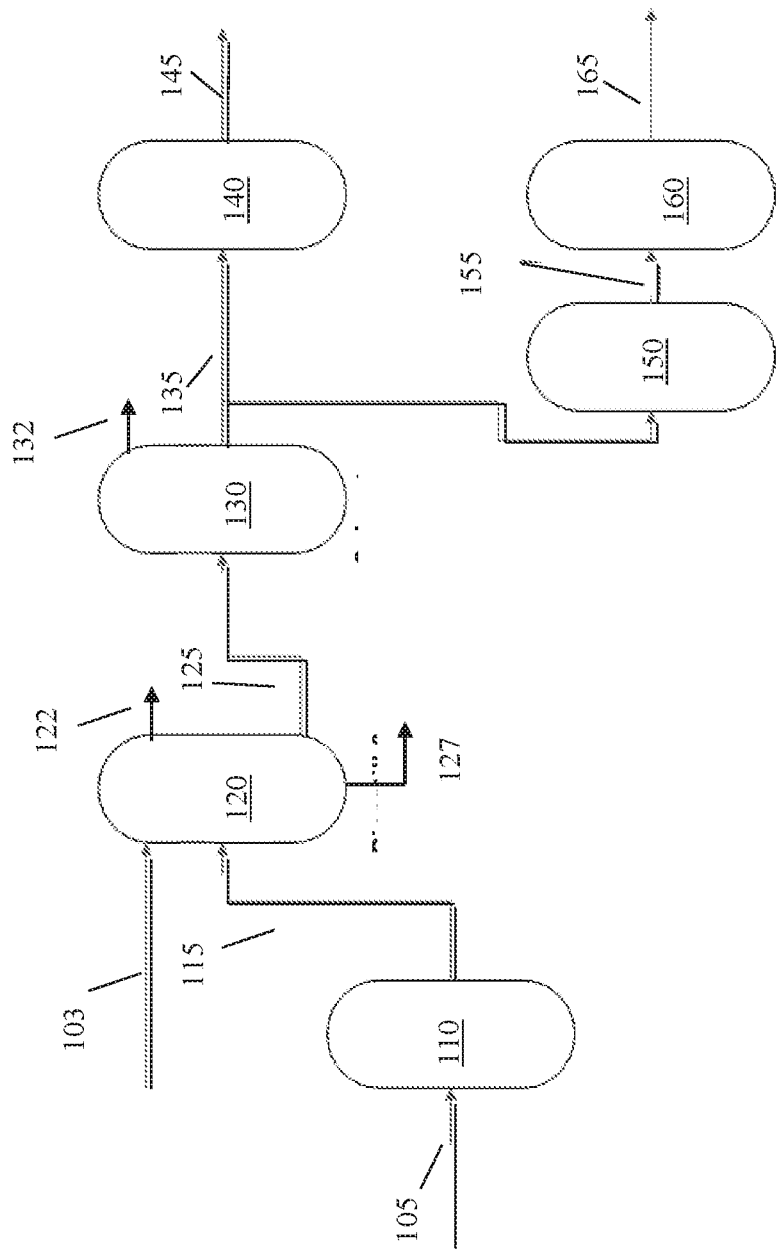


FIG. 1

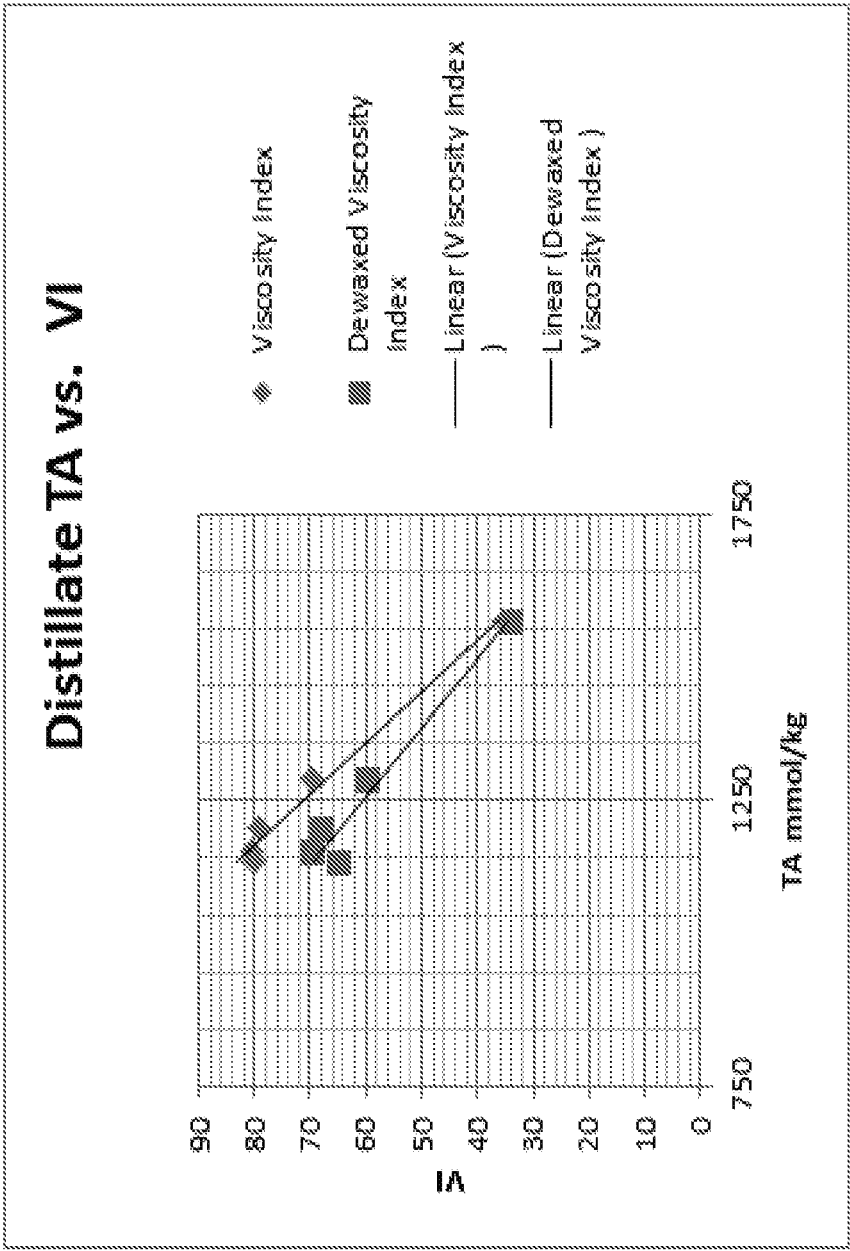


FIG. 2

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Bottoms Yield, wt%	Extracts	HDP		HDP		Topped		HDP
		HDP Effluent	HCO	HCO	HCO	Crude Oil	Effluent	
API		16.9	20.7	4.8	53.5	23.8	67.0	
SG		0.954	0.930	1.038	0.967	0.911	0.929	
Sulfur	wt%	2.1	0.7	0.4	0.1	0.4	0.1	
Total Nitrogen	ppm	1492.8	1270.8	1104.3	611.5	1304.7	1695.2	
Basic Nitrogen	ppm	746.6	642.4	125.4	21.7	579.6	692.1	
CCR	wt%	0.0	0.0	0.0	0.0	0.1	0.1	
Nickel	ppm	0.0	0.0	0.0	0.0	0.4	0.3	
Vanadium	ppm	0.0	0.0	0.0	0.0	5.2	3.3	
Distillation								
IBP	deg C	301.8	387.9	244.3	357.1	150.0	380.6	
5%	deg C	382.0	396.3	271.9	361.3	242.8	390.1	
50%	deg C	443.0	437.7	379.8	389.6	398.0	479.5	
90%	deg C	512.9	512.6	422.9	427.7	562.0	574.4	
95%	deg C	527.0	520.4	432.8	439.3	584.1	617.8	
FBP	deg C	541.9	535.5	463.2	459.6	628.4	627.6	
Paraffins								
Olefins		18.4	19.8	6.0	14.4	13.9	8.9	
Napthenes		0.0	0.0	0.4	0.0	0.0	0.0	
Aromatics		20.1	24.0	3.7	10.0	43.0	40.4	
		61.5	56.2	89.8	75.6	43.0	50.7	

FIG. 3

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	150N base oils	Run Type 1 (avg)	Run Type 1 (end of run)	Run Type 2 (avg)
KV@40°C (cSt)		28.6	29.9	30.9
KV@100°C (cSt)		5.1	5.1	5.2
Viscosity Index		104	103	99
Pour Point (°C)		-12	-13	-13
Sulfur (wt%)		0.49	0.56	0.58
Aliphatic Sulfur (wt%)		0.28	0.31	0.35
Basic Nitrogen (wppm)		16	27	32
Total aromatics (wt%)		~23	~24	~25
2+ ring aromatics (wt%)		~5	~6	~6
3+ ring aromatics (wt%)		~1	~1	~1
Noack volatility (wt%)		14.3	15.4	14.2
Saturates (wt%)		73	72	70

FIG. 4

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	600N base oils	Run Type 1 (avg)	Run Type 2 (avg)
KV@40°C (cSt)		113.9	102.7
KV@100°C (cSt)		12.2	11.4
Viscosity Index		97	96
Pour Point (°C)		-8	-6
Sulfur (wt%)		0.81	0.74
Aliphatic Sulfur (wt%)		0.38	0.42
Basic Nitrogen (wppm)		59	66
Total aromatics (wt%)		~23	~22
2+ ring aromatics (wt%)		~8	~7
3+ ring aromatics (wt%)		~2	~2
DSC wax (-5°C) (wt%)		1.41	1.87
Saturates (wt%)		67	68

FIG. 5