September 30, 2019

Impact of Crude Mix on Marine Bunker Fuel Oil 0.5% S m/m Production

Stratas Advisors

More than 2 million bpd of crude is available that can be converted to 0.5% S m/m utilizing simple refinery processing. The refinery processing such as blending, steam stripping and crude distillation may be applied to meet the marine bunker fuel specification. Sweet heavy crude doesn't need hydrotreating to meet the bunker fuel specification as the sulfur is already below 0.5% S m/m. The properties that can be a concern are minimum flash point, viscosity, CCAI and density. These properties can be achieved by simple refinery processing. There can be many more options of these crudes. However, the following crudes are listed that can be of interest for the refiners to look into.

Country, Region	Crude	API°	Sul, % m/m	Vis, cSt @ 100 F	Production, Thousand BPD
Cameroon, Africa	Doba Blend	20	0.16	190	100
Indonesia, Asia	Duri Heavy, Sumatra	21	0.19	115	250
Brunei, Asia	Champion Export	24	0.14	15	100
Argentina	Escalante	24	0.19	150	1000
Nigeria, West Africa	Bonny Medium	25	0.22	20	100
Indonesia	Sanga	25	0.18	5	10
Kansas , US	Marcotte Field	26	0.77	15	300
Congo	Djeno Blend	28	0.32	25	250
Argentina	Canadon Seco	29	0.16	30	150
UK	Kraken	14	0.55	400	50
Total					2310

Source: Stratas Advisors

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