COCKETT MARINE OIL
www.cockettgroup.com

ISO 8217:2010
Category ISO F

Characteristic	Limit	Residual											Distillate	
		RMA 10	RMB 30	RMD 80	RME 180	RMG 180	RMG 380	RMG 500	RMG 700	RMK 380	RMK 500	RMK 700	DMA	DMB
Kinematic viscosity, mm²/sb	min.												2,0	
- at 40 °C	max.												6,0	11,0
- at 50 °C	max.	10,0	30,0	80,0	180,0	380,0	500,0	700,0		380,0	500,0	700,0		
Density at 15°C, kg/m³	max.	920,0	960,0	975,0	991,0					1010,0			890,0	900,0
CCAI	max.	850	860		870									
Cetane index	min.												40	35
Sulphur, % (m/m)	max.	Statutory requirements											1,50	2,00
Flash point, °C	min.	60											60	
Hydrogen sulfide, mg/kg	max.	2,0											2,0	
Acid number, mg KOH/g	max.	2,5											0,5	
Total sediment aged, % (m/m)	max.	0,10												
Total sediment hot filtration, % (m/m)	max.												-	0,10
Oxidation stability, g/m³	max.												25	
Carbon residue, % (m/m)	max.	2,5	10	14	15	18				20			-	0,30
- 10% volume distillation	max.												0,30	-
Pour point (upper), °C													-	-
- winter quality	max.	0		30									-6	0
- summer quality	max.	6		30									0	6
Water, % (V/V)	max.	0,3	0,5										-	0,3
Ash, % (m/m)	max.	0,04	0,07			0,10				0,15			0,01	
Vanadium, mg/kg	max.	50	150			350				450				
Sodium, mg/kg	max.	50	100	-	50	100								
Aluminium plus silicon, mg/kg	max.	25	40	-	50	60								
Lubricity, corrected wsd 1,4) @ 60°C	max.												520	
Used lubricating oil (ULO), mg/kg		Fuel shall be free of ULO. Fuel is considered to contain ULO when either:												
- Calcium and Zinc	-	Calcium > 30 and Zinc > 15; OR												
- Calcium and Phosphorus	-	Calcium > 30 and Phosphorus > 15												

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5.0 General Requirements

5.1 The fuel shall conform to the characteristics and limits given in Table 1 or Table 2, as appropriate, when tested in accordance with the methods specified.

5.2 The fuel shall be a homogeneous blend of hydrocarbons derived from petroleum refining. This shall not preclude the incorporation of additives intended to improve some aspects of the fuel's characteristics and performance. The fuel shall be free from inorganic acids and used lubricating oils.

5.3 Fuels shall be free from any material that renders the fuel unacceptable for use in marine applications.

5.4 The fuel shall be free from bio-derived materials other then 'de minimis' levels of FAME (FAME shall be in accordance with the requirements of EN 14214 or ASTM D6751). In the context of this International Standard, "de minimis" means an amount that does not render the fuel unacceptable for use in marine applications. The blending of FAME shall not be allowed.

5.5 The fuel shall not contain any additive at the concentration used in the fuel, or any added subsance or chemical waste that -
a) jeopardizes the safety of the ship or adversely affects the performance of the machinery; or
b) is harmful to personnel; or
c) contributes overall to additional air pollution.

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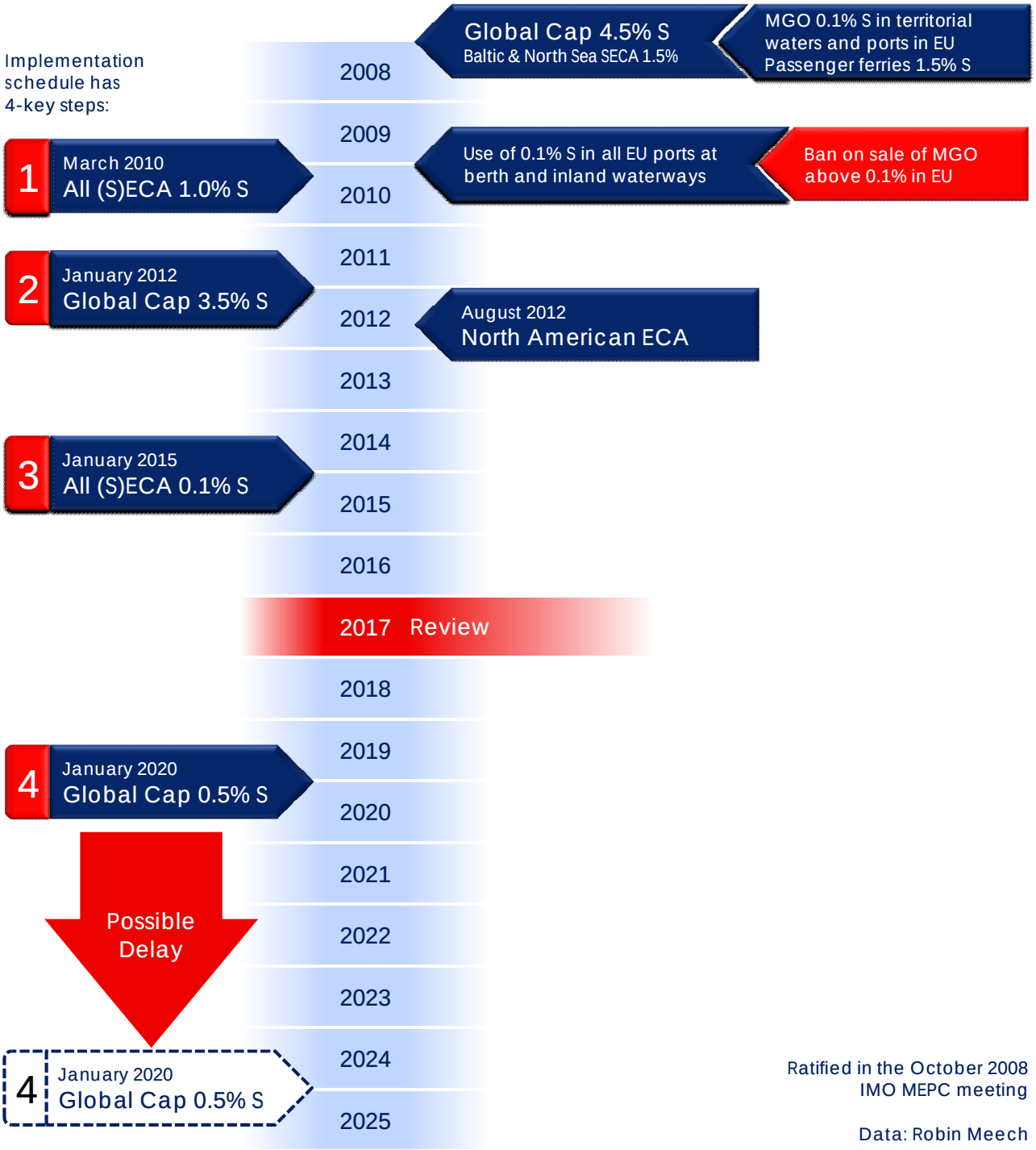
Sulphur ("S") Content Timeline



Ratified in the October 2008 IMO MEPC meeting

Data: Robin Meech