## IADC CLASSIFICATION FOR PDC AND DIAMOND BITS

IADC code consists of four characters, indicating bit body, formation type, cutting structure and bit profile. First character is literal, others – numerical.

First literal code character designates the bit body material (Steel, Matrix or Diamond).

Second numerical code character (1-8) designates the formation type being drilled. Category 5 has no code.

**Third numerical code character** designates drill bit cutting structure (PDC cutter size, diamond cutter type). Drill bits are equipped with 8-19 mm PDC cutters for 1-4 formation type categories and with natural diamonds, thermally stable polycrystalline diamonds (TPS), their combination or impregnated diamonds for 6-8 formation type categories.

Fourth numerical code character – bit profile.

1	2		3				4			
Bit body	Formation type		Size of PDC cutters				Bit profile			
			1	2	3	4	1	2	3	4
	Very soft	1								
	Soft	2	-\	6	13	∞				
	Soft to medium	3								
	Medium	4								
	no code	5	Diamond cutters type							
S – steel M – matrix	Medium hard	6	Natural diamond	Thermally stable (TSP)	ination		Short fishtail	Short profile	Medium profile	Long profile
D – diamond	Hard	7			Comb					
	Extremely hard	8			7.	Impregnated diamond				

