2021 FORMULA 1 VTB
RUSSIAN GRAND PRIX

brembo

24-26 SEP 2021

BRAKE CIRCUIT IDENTITY CARD

BRAKES EFFORT
HARD

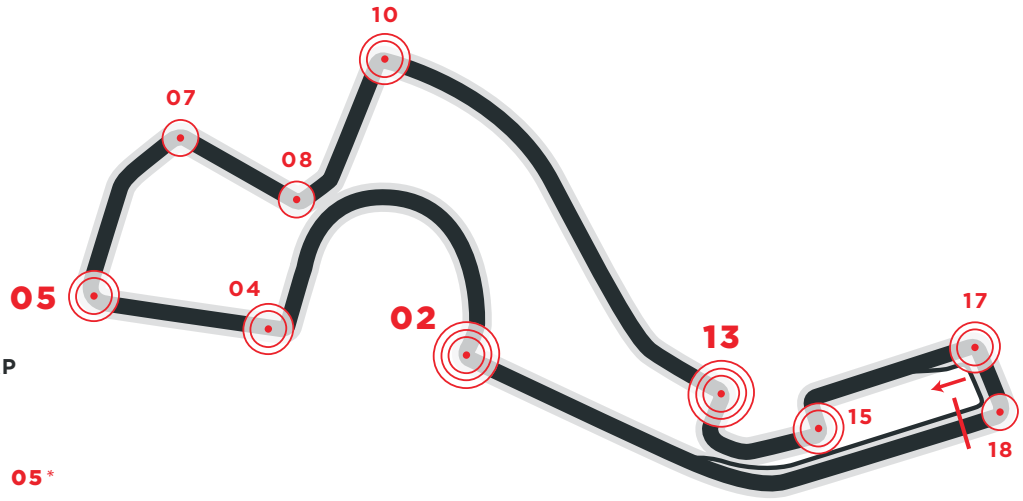
TIME SPENT BRAKING
17%

CIRCUIT LENGTH
5,848 M

NUMBER OF LAPS
53

NUMBER OF BRAKE ZONES/LAP
10

IMPORTANT
TURN 02*, **TURN 13*** and **TURN 05*** are considered the most demanding for the braking system.



Sochi is one of the most challenging circuits for the braking system, even if the management of the friction material temperature is the key to managing the race with the guarantee of consistent performance and controlled wear. The most critical aspect, with regard to the braking system, is linked to the correct sizing of air intakes that ensure the optimum operating temperature for the brakes.

Should you publish any of the data contained here please quote Brembo as source used.

TURN 02			
Initial speed	336	(Km/h)	
Final speed	131	(Km/h)	
Stopping distance	109	(m)	
Braking time	1.85	(sec)	
Maximum deceleration	6.1	(g)	
Maximum pedal load	144	(Kg)	
Braking power	2892	(Kw)	

TURN 04			
Initial speed	306	(Km/h)	
Final speed	186	(Km/h)	
Stopping distance	76	(m)	
Braking time	1.16	(sec)	
Maximum deceleration	4.2	(g)	
Maximum pedal load	63	(Kg)	
Braking power	1386	(Kw)	

TURN 05			
Initial speed	296	(Km/h)	
Final speed	155	(Km/h)	
Stopping distance	77	(m)	
Braking time	1.30	(sec)	
Maximum deceleration	4.8	(g)	
Maximum pedal load	81	(Kg)	
Braking power	1630	(Kw)	

TURN 07			
Initial speed	295	(Km/h)	
Final speed	191	(Km/h)	
Stopping distance	88	(m)	
Braking time	1.37	(sec)	
Maximum deceleration	3.4	(g)	
Maximum pedal load	59	(Kg)	
Braking power	939	(Kw)	

TURN 08			
Initial speed	275	(Km/h)	
Final speed	199	(Km/h)	
Stopping distance	63	(m)	
Braking time	0.97	(sec)	
Maximum deceleration	3.1	(g)	
Maximum pedal load	39	(Kg)	
Braking power	645	(Kw)	

TURN 10			
Initial speed	286	(Km/h)	
Final speed	163	(Km/h)	
Stopping distance	71	(m)	
Braking time	1.20	(sec)	
Maximum deceleration	4.5	(g)	
Maximum pedal load	71	(Kg)	
Braking power	1406	(Kw)	

TURN 13			
Initial speed	344	(Km/h)	
Final speed	112	(Km/h)	
Stopping distance	130	(m)	
Braking time	2.40	(sec)	
Maximum deceleration	5.6	(g)	
Maximum pedal load	163	(Kg)	
Braking power	2851	(Kw)	

TURN 15			
Initial speed	249	(Km/h)	
Final speed	99	(Km/h)	
Stopping distance	91	(m)	
Braking time	2.12	(sec)	
Maximum deceleration	3.5	(g)	
Maximum pedal load	98	(Kg)	
Braking power	1340	(Kw)	

TURN 17			
Initial speed	285	(Km/h)	
Final speed	155	(Km/h)	
Stopping distance	85	(m)	
Braking time	1.48	(sec)	
Maximum deceleration	3.7	(g)	
Maximum pedal load	69	(Kg)	
Braking power	1434	(Kw)	

TURN 18			
Initial speed	212	(Km/h)	
Final speed	125	(Km/h)	
Stopping distance	61	(m)	
Braking time	1.39	(sec)	
Maximum deceleration	2.8	(g)	
Maximum pedal load	49	(Kg)	
Braking power	641	(Kw)	