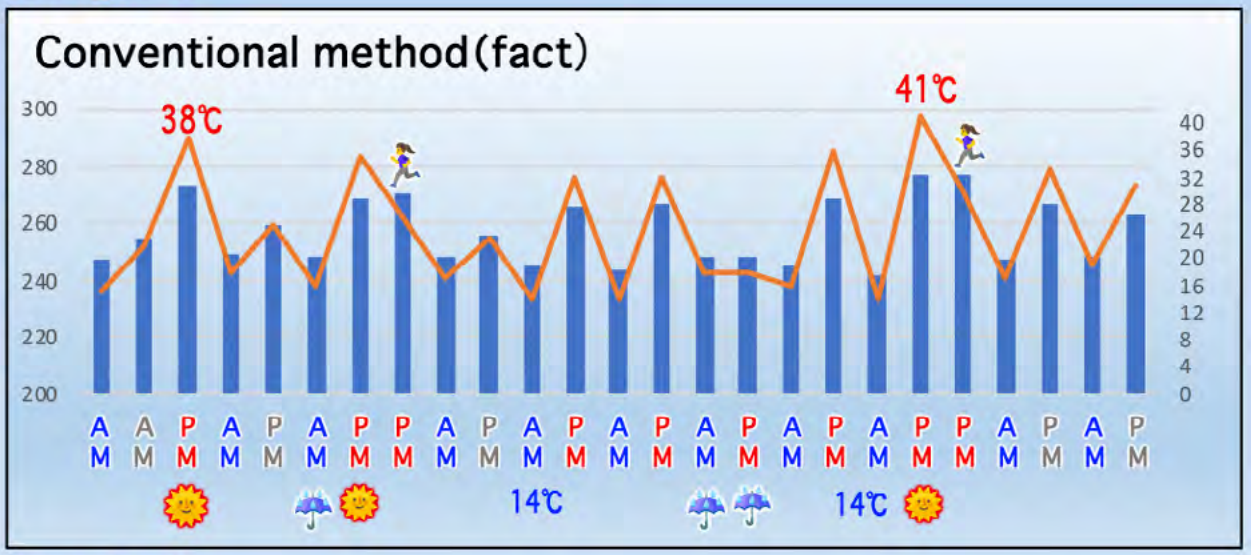
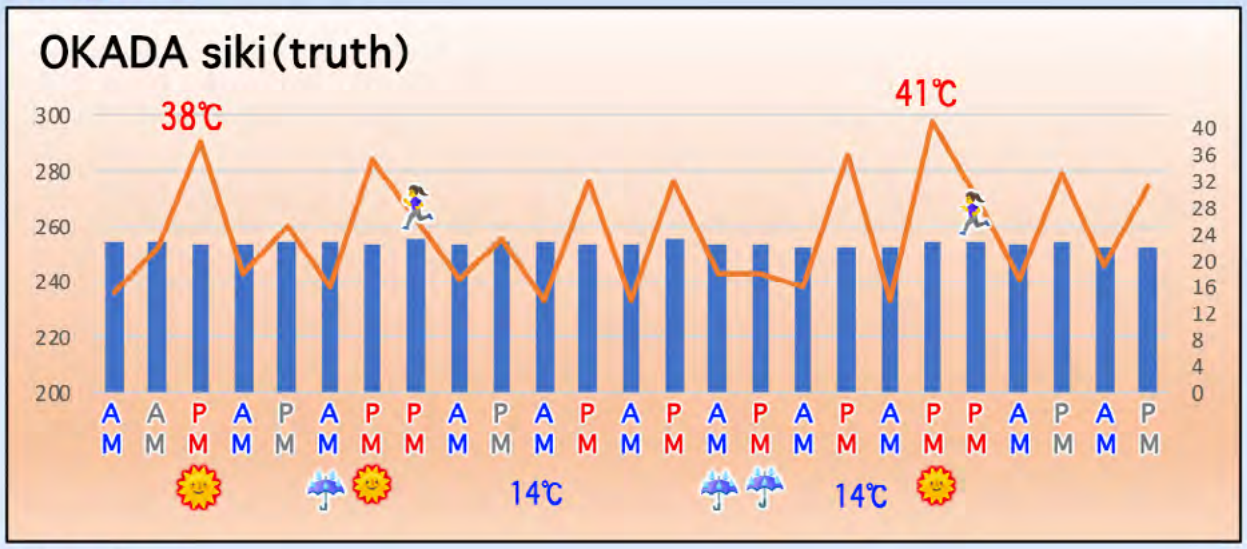
Comparison of conventional and Okada air

Temperature　　Air Pressure

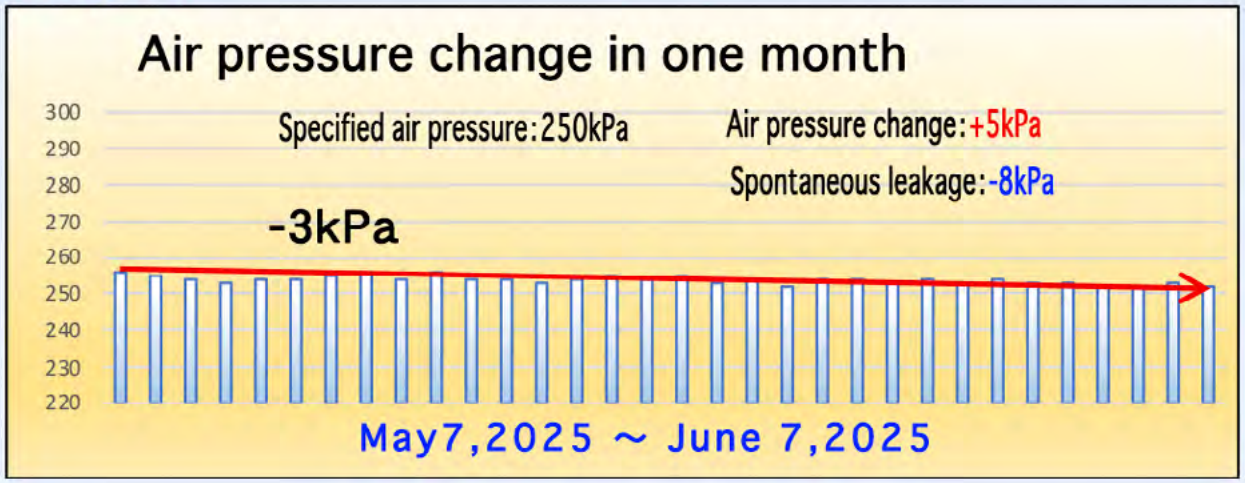
Graph-1



Graph-2

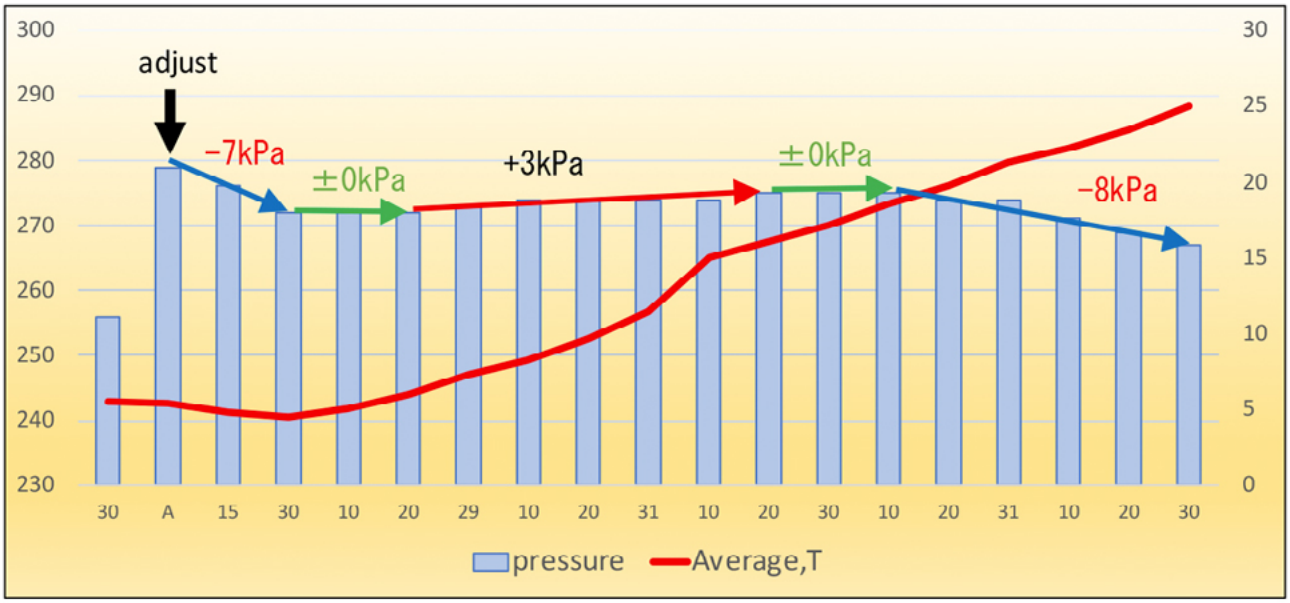


Graph-3



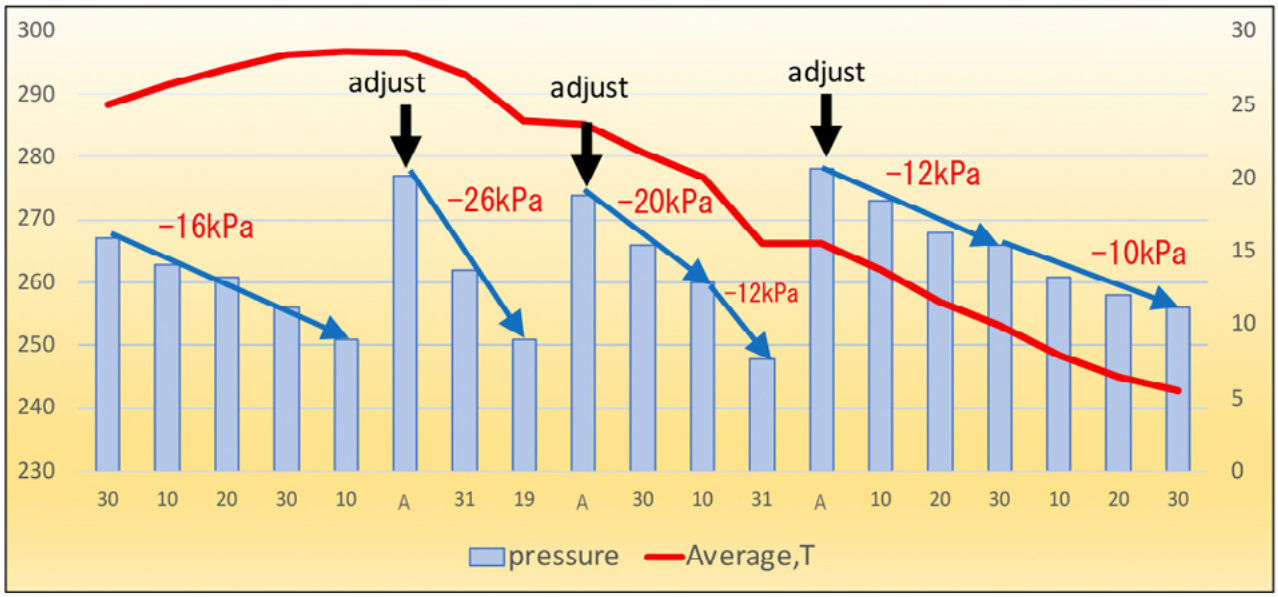
Graph-4 January～February Specified air

		In 2024																	
		Adjust			February			March			April			May			June		
SUZUKI	30	A	15	30	10	20	29	10	20	31	10	20	30	10	20	31	10	20	30
pressure	256	279	276	272	272	272	273	274	274	274	274	275	275	275	274	274	271	269	267
Specified		△7kPa			1kPa			1kPa			1kPa			△1kPa			△7kPa		
Average,T	5.5	5.4	4.8	4.5	5.0	6.0	7.3	8.2	9.7	11.5	15.0	16.1	17.2	18.6	19.8	21.3	22.3	23.4	25.0

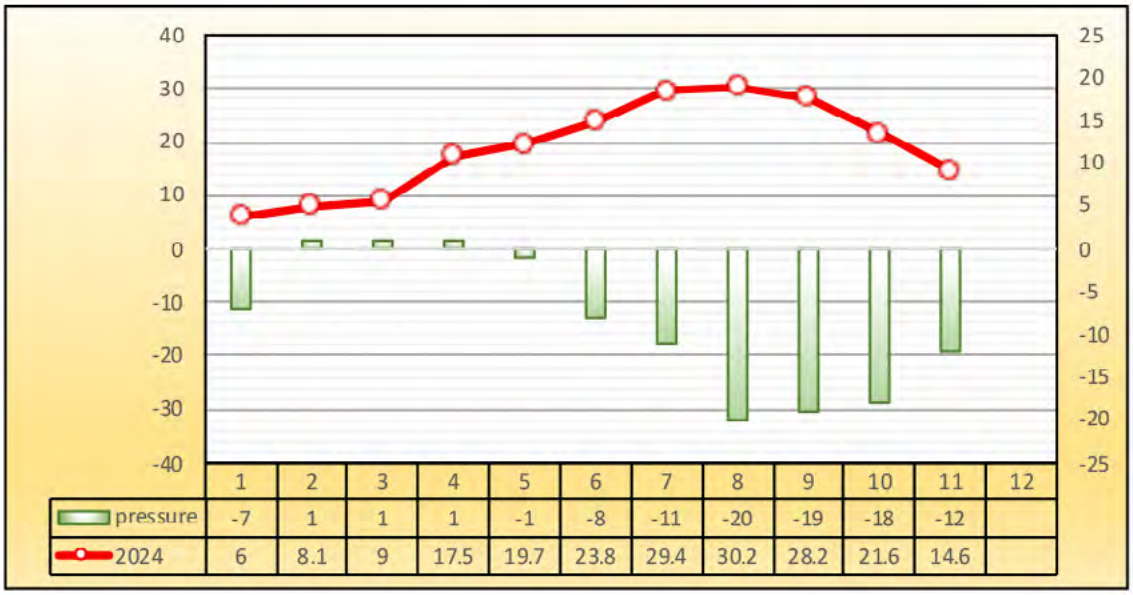


Graph-5 July～December Specified air pressure

	In 2024																		
		July			August			September			October			November			December		
ハスラー	30	10	20	30	10	A	31	19	A	30	10	31	A	10	20	30	10	20	30
pressure	267	263	261	256	251	277	262	251	274	266	260	248	278	273	268	266	261	258	256
Specified		△11kPa			△20kPa			△19kPa			△18kPa			△12			△10		
Average,T	25.0	26.3	27.4	28.4	28.6	28.5	27.0	23.9	23.7	21.7	20.0	15.5	15.5	13.7	11.5	10.0	7.9	6.5	5.5

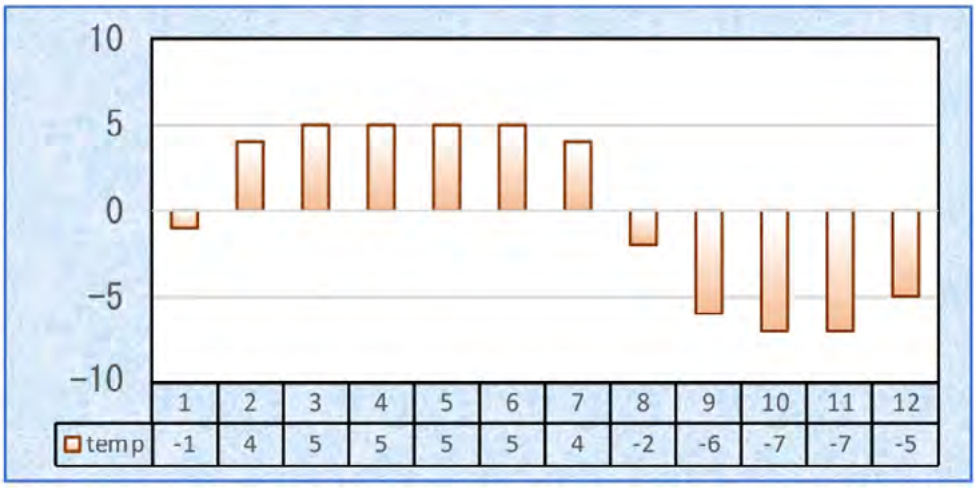


Graph-6 Tire pressure change in 1 year



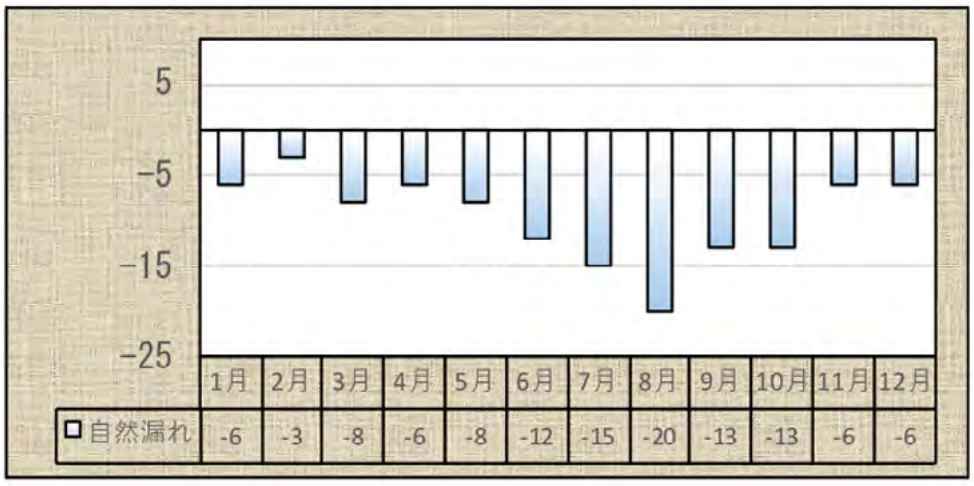
	1	2	3	4	5	6	7	8	9	10	11	12
pressure	-7	1	1	1	-1	-8	-11	-20	-19	-18	-12	
2024	6	8.1	9	17.5	19.7	23.8	29.4	30.2	28.2	21.6	14.6	

Graph-7 Changes due to the influence of air pressure temperature in one year



	1	2	3	4	5	6	7	8	9	10	11	12
temp	-1	4	5	5	5	5	4	-2	-6	-7	-7	-5

Graph-8 Change in pneumatic spontaneous leakage in 1 year



	1月	2月	3月	4月	5月	6月	7月	8月	9月	10月	11月	12月
自然漏れ	-6	-3	-8	-6	-8	-12	-15	-20	-13	-13	-6	-6

Okada Tire Pressure Calculator

(CO2reduction)

Responsibility to use
Specified Air Pressure (Cold)

Reference temperature:
Average temperature
(Japan Meteorological Agency)

Inspection Air Pressure
(Apparent air pressure)

Air temperature at the time of inspection

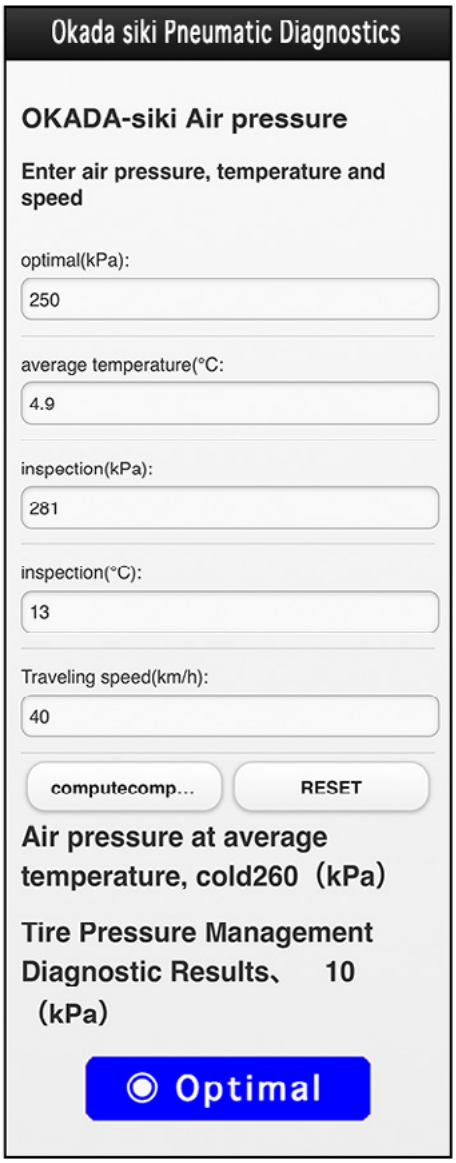
Air pressure: proportional to running speed
(standard:10km/h→1%)

Boyle-Charles's Law

Gauge pressure 0 kPa = atmospheric pressure

Diagnostic results (error ± 5kPa)

Corrected air pressure (true air pressure)



My patent “Tire pressure adjustment method”
Reference temperature = average temperature

【Date of filing】June 1, 2009
【Publication date】2010.2.10
Patenting（Valid only in Japan）
No. 4413987 (P4413987))