

Technical Department

NZRC SUPPLEMENTARY TECHNICAL REPORT

1. Vehicle and Competitor Details:

Car	Hyundai i20 AP4	Driver;	Hayden Paddon
Chassis No.	MALBB31CLCM028873	Licence No.	007024X
Logbook	21518	Inspection venue:	Paddon Rallysport, Cromwell
		Inspection date:	27 May 2021

2. Report Details:

Permission was requested to break the engine cylinder head seals on the vehicle detailed above for the purpose of engine refreshen prior to Round three of the NZRC.

The Hyundai i20 AP4 Plus Rally Car is currently leading the 2021 Rally Championship Points in Class 1. Under the prescriptions of the 2021 NZRC Portfolio, the minimum weight for competing Class 1 cars is determined by engine capacity and is declared for each car prior to the first Round entered. As the car is currently leading the Championship Points it is considered appropriate that the declared engine capacity be confirmed by physical inspection prior to dismantling.

3. Inspection details:

- The engine cylinder head seals were checked and found intact. The cylinder head seal number was MSNZ025007 which matched the seal recorded at Round 1 of the Championship in Dunedin. See Photo 1 below
- The seal was broken under supervision and the cylinder head was removed.
- The exposed surfaces were checked and found to be clean and the engine 'Top Dead Centre' was identified using a dial gauge.
- The Stroke was measured using a Vernier Depth Gauge. (See Photo 2 and 3 below)
- The bore was measured using a digital bore gauge and Micrometer. (See Photo 4)
- The cylinder swept volume was calculated and converted into total engine capacity using bore the recorded and Stroke measurements.

4. Inspection Result:

The engine inspection confirms that the uncorrected engine capacity (combined swept volume) for the vehicle detailed above is 1793.8cm³ and compliant with Group AP4 Technical Regulations.

Technical Department



Terry Carkeek
Technical Manager
MotorSport New Zealand Inc.
25 May 2020