



Skoda Fabia R2 Power Testing – Brno University of Technology, Czech Republic



Testing was carried out at Brno University of Technology, Institute of Automotive Engineering, Department of Internal Combustion Engines. Tests were carried on the engine mounted on an engine test bed.

The objective was to confirm the benefit of Millers Oils new CFS NT engine oils in terms of higher engine power and torque. Five grades of low friction engine oils were launched at Autosport 2012.

Car Details; Skoda Fabia R2

1.6 naturally aspirated petrol engine for rally racing

Testing;

The first test, running with CFS 10w60 recorded 138.6 kW, 188.5 HP.

After the first test all oil was removed from the engine, oil cooler and the oil filter was changed.

The second test used oil **CFS 10w60 NT** (pre-warmed to 93°C inside of the engine before the test) and recorded – 140.7 kW, 191.4 HP

A third test was done, using CFS 0w30 NT (pre-warmed to 85°C inside of the engine before the test) – showed same final power results as CFS 10w60 NT but significantly higher torque in wide range of revs.

Result:

- Changing from CFS 10w60 to CFS 10w60 NT has brought 2.1 kW / 3 HP extra. (+1.5 %)
- Changing the viscosity of oil from CFS 10w60 NT to 0w30 NT affected only the torque – higher in wide range of revs but not the maximum engine power.

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Comments from test participants;

Ing. Stanislav Kouřil, engine builder: "Adding +1.5% of power on this naturally aspirated engine is a fantastic result and the new oils proved well they really do what they claim. Together with the NT gear oils this means fast, easy and cheap achievable significant power boost for every racing car. I will do more tests personally on various engines and start recommending to all of my customers."

Mr. Jiří Jelínek, engine engineer: "I did some test with Millers Oils CFS range in previous years but they worked pretty the same as other high performance racing oils as Mobil 1, Motul or ELF. This new Nanodrive range is something extraordinary and in my long career in testing of engine performance I have never seen such rapid change in engine power with simple changing the oil with the same viscosity."

Ing. David Svída, Ph.D., Senior Lecturer of Dept. of Internal Combustion Engines: "This is the first product in category of lubricants doing and proving exactly that what it tells on the label. I am happy to see it on my own eyes. Please send me some detail information about this lubricants and I will tell to my students and colleagues."



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