

RACE MACHINE CENTER (HILLEGOM) INCREASED PERFORMANCE ON MINI COOPER USING AR9100

PARTIES & INDIVIDUALS:

Racers Machine Center Hillegom, Gerrit van Zijverden, Specialist Tuner and Owner. BLP International Hillegom, Rob van Hoorn, Project Manager.

PERIOD:

June 2012 - Present.

BACKGROUND:

The engine oil in a Mini Cooper race engine is also used to lubricate the transmission. This sets out challenging requirements and demands on the oil. To remain competitive, it is important to investigate every possible advantage as 1 - 2 additional horsepower can make all the difference. RMC Hillegom also experience temperature spikes in the oil.

OBJECTIVES:

To protect the transmission, reduce oil temperature and increase horsepower.

PRODUCTS USED:

Archoil AR9100 Nanoborate Oil Treatment (Friction Modifier).

ACTION:

0.5 litres of Archoil AR9100 was added to 5 litres of MOTUL 300V Competition oil. Motul 300V is considered one of the best commercially available race oils, providing substantial protection and anti-wear properties.

The customer chose to demonstrate the advantages of AR9100 even when used with one of the very best oils available on the market.

The AR9100 generates a chemical bond with metal surfaces. This provides tremendous wear resistance, extreme pressure protection and a friction coefficient of 0.0375.

RESULT:

Noticeably reduced noise. Oil temperature dropped from > 105°C to below 95°C. Engine top speed increased by approximately 2%. Dyno testing revealed an improvement in power of > 2%. Lap times improved as a result.

PRODUCTS TESTED

Archoil AR9100 Nanoborate Oil Treatment
(Friction Modifier)

