

Test Results

Test Unit

Gear test bench

Test conditions

Pinion speed: $n_1 = 2250 \text{ min}^{-1}$

Pinion drive

Max. Test duration 300 h

Load stage: $p_{c10} = 1834 \text{ Nm}$

Oil temperature: $T_1 = 90 \pm 3 \text{ }^\circ\text{C}$

Oil: TMP-Ester with additives

Test gear

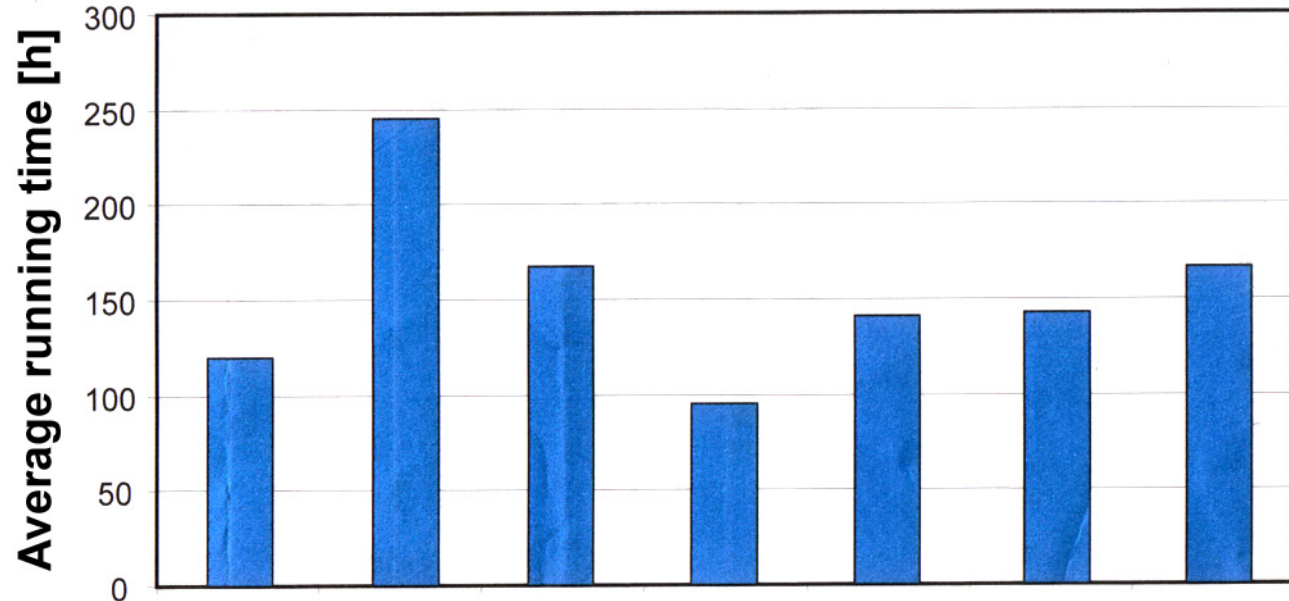
Type: FZG-C_{mod2}

Material: 16MnCr5E

Surface finish

- Not coated

- a-C:H-Me-coated



Starting condition	Teeth cBN ground						
	none	none	a-C:H-W(I)	a-C:H-W(I)	a-C:H-W(II)	a-C:H-W(II)	a-C:H-W(II)
Super finished		X		X	X		X
Micro shot peened			X		X		
Coating	none	none	a-C:H-W(I)	a-C:H-W(I)	a-C:H-W(II)	a-C:H-W(II)	a-C:H-W(II)