



ChemTech

International Journal of ChemTech Research

CODEN(USA): IJCRGG, ISSN: 0974-4290,

ISSN(Online):2455-9555

Vol.10 No.3, pp 225-228,2017

Design of Chain Differential for a Race Car

Bridjesh P^{*1}, Vinayak J², Teja N³ and Madhu S⁴

^{1,2,3,4}Department of Mechanical Engineering, MLR Institute of Technology, Hyderabad, 500043, India.

Abstract: This present study addresses the issue of acceleration efficiency by discussing the overall design of sprocket chain open differential. A special focus on sprocket and the material employed in production of chain differential and factors that leads to sprocket failure. It is an approach to invent the effective current methodology and technologies available to enhance to the overall differential and to avoid sprocket failure due to sprocket cracking. In particular, the effectiveness of certain steel alloys in resisting creep and fracture in differential sprocket. The effectiveness of hardening in protecting the sprocket substrate from cracking when exposed to load acting on it.

Keywords: Design, Chain differential, Race car.

Bridjesh P et al/International Journal of ChemTech Research, 2017,10(3): 225-228.
