

radial tire 295/80R22.5 was built. Parameters like strain, stress and strain energy density were obtained using ABAQUS implicit algorithm, and the tire fatigue life evaluation parameters were identified based on actual failure modes. The results indicated that, under long-lasting and high speed condition, the strain energy density and rebar tension force should be chosen as the tire fatigue life evaluation parameters, and appropriately increasing the thickness of the composite between 2[#] belt and 3[#] belt could lengthen the fatigue life effectively. Under the condition of overload and low speed, the shear stress between the cord and rubber compound should be chosen as the tire fatigue life evaluation parameter, and appropriately reducing the height of the carcass layers and reinforcement layers could lengthen the fatigue life effectively.

Key words: all-steel radial tire; fatigue failure; finite element analysis

Nitto推出Ridge Grappler轻载轮胎

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美国《现代轮胎经销商》(www.moderntiredealer.com)2016年6月7日报道:

Nitto轮胎美国公司轻载轮胎Grappler系列新增了Ridge Grappler轮胎(如图1所示)。Ridge Grappler轮胎介于Nitto Trail Grappler泥地轮胎与Nitto Terra Grappler G2全地形轮胎之间,将提供30种规格。



图1 Ridge Grappler轮胎

Nitto公司称,Ridge Grappler轮胎采用多项新技术,使其越野能力与舒适、安静全地形之间达到完美平衡。

Ridge Grappler胎面为与众不同的动态混合型花纹。为尽量减少大多数胎面设计在高速公路行驶时的固有杂声,Ridge Grappler轮胎具有降噪变节距胎面花纹块。在越野地况,交替胎肩沟槽有助于快速清除淤泥而横向曲折沟槽提供更大的牵引力。其增强的花纹基部可提高刚性以减少胎面弯曲。

Ridge Grappler轮胎还可提供F负荷级别规格,

与E负荷级别相比,可在高充气压力下具有更高承载能力。

“Ridge Grappler轮胎为我们的载重汽车客户提供越野性能与日常驾乘舒适性的完美平衡,”高级工程师Alan Ngo说,“Ridge Grappler拥有激动人心的新技术,使其成为我们有史以来可提供最强大能力和价值的产品。”

Ridge Grappler将提供30种规格,包括Jeep Wranglers的原配胎以及0.75和1 t的载重汽车轮胎,拥有两种独特的胎侧设计,可使司机选择最适合他们车辆外观的轮胎。

Ridge Grappler轮胎于2016年7月推出的规格包括:LT285/70R17 C 116/113Q, LT285/70R17 E 121/118Q, 37×12.50R17LT D 124Q, 37×12.50R20LT E 126Q和35×12.50R22LT F 121Q。后续推出的规格包括:LT265/70R17 E 121/118Q, LT275/65R20 E 126/123Q, LT285/75R17 C 117/114Q, LT295/55R20 E 123/120Q, LT285/75R17 E 121/118Q, LT295/60R20 E 126/123Q, LT295/70R17 E 121/118Q, LT295/65R20 E 129/126Q, LT305/70R17 E 121/118Q, LT305/55R20 F 125/122Q, 33×12.50R17LT E 120Q, 33×12.50R20LT F 119Q, 35×12.50R17LT E 121Q, 35×11.50R20LT E 124Q, LT275/65R18 E 123/120Q, 35×12.50R20LT F 125Q, LT275/70R18 E 125/122Q和35×13.50R20LT F 126Q。

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