

Compatibility of equipments

Context

Petzl was made aware that some dyneema rope were being used together with some of its products by Austrian Mountain Rescue Teams



Theory

Rope diameters
 Diamètres de la corde
 Seildurchmesser
 Diametri della corda
 Diámetros de la cuerda

Batch n°
 N° de série
 Seriennummer
 N° di serie
 N° de serie

Year of manufacture
 Année de fabrication
 Herstellungsjahr
 Anno di fabbricazione
 Año de fabricación

Production date
 Jour de fabrication
 Tag der Herstellung
 Giorno di fabbricazione
 Día de fabricación

Control
 Contrôle
 Kontrolle
 Controllo
 Control

00 000 A

CE 0197

Body controlling the manufacturing of this PPE
 Organisme contrôlant la fabrication de l'équipement
 Organismo che controlla la fabbricazione dell'equipag. di tipo
 Organismo controlador de la fabricación de este EPI

Notified body intervening for the CE standard examination
 Organisme notifié intervenant pour l'examen CE de type
 Zertifizierungsorganismus für CE Typen Überprüfung
 Ente notificato che interviene per l'esame CE di tipo
 Organismo notificado que interviene en el examen CE de tipo

SGS United Kingdom Ltd., Weston-super-Mare, BS22 6WA, UK

8 ≤ Ø ≤ 13 mm

(EN) Rope (core + sheath) static, semi-static (EN 1891) or dynamic (EN 892)
 (FR) Corde (âme + gaine) statique, semi-statique (EN 1891) ou dynamique (EN 892)
 (DE) Seil (Kern + Mantel) statisch, halbstatisch (EN 1891) oder dynamisch (EN 892)
 (IT) Corda (anima + calza) statica, semistatica (EN 1891) o dinamica (EN 892)
 (ES) Cuerda (alma + funda) estática, semiestática (EN 1891) o dinámica (EN 892)

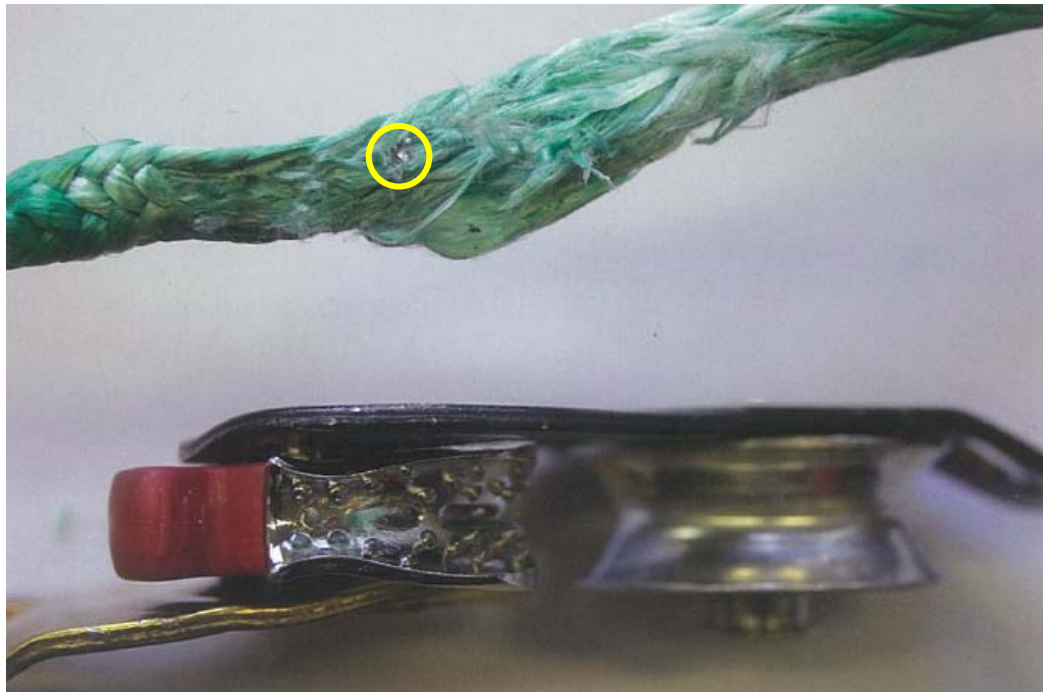
ISO 9001
 PETZL / F-38920 Crollis
 www.petzl.com

Copyright Petzl
 Printed in France

Theoretically, the use of dyneema ropes is not allowed on our products, as most of our products are designed, tested and certified to work with kernmantel ropes

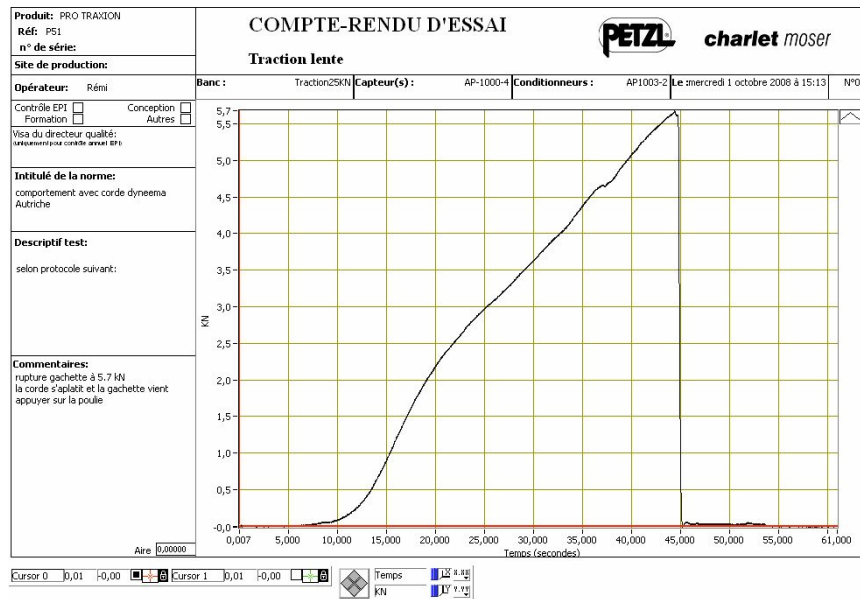
Practice

Practically, tests conducted by Peter VEIDER shown some tooth breakage on a PROTRAXION pulley



Practice

Other tests conducted at Petzl test laboratory managed to break the cam of the PROTRAXION



Importance of system approach



When one component of the system is changed, the result can be completely unexpected

- On a PROTRAXION used together with a kernmantel rope the weakest link is the rope

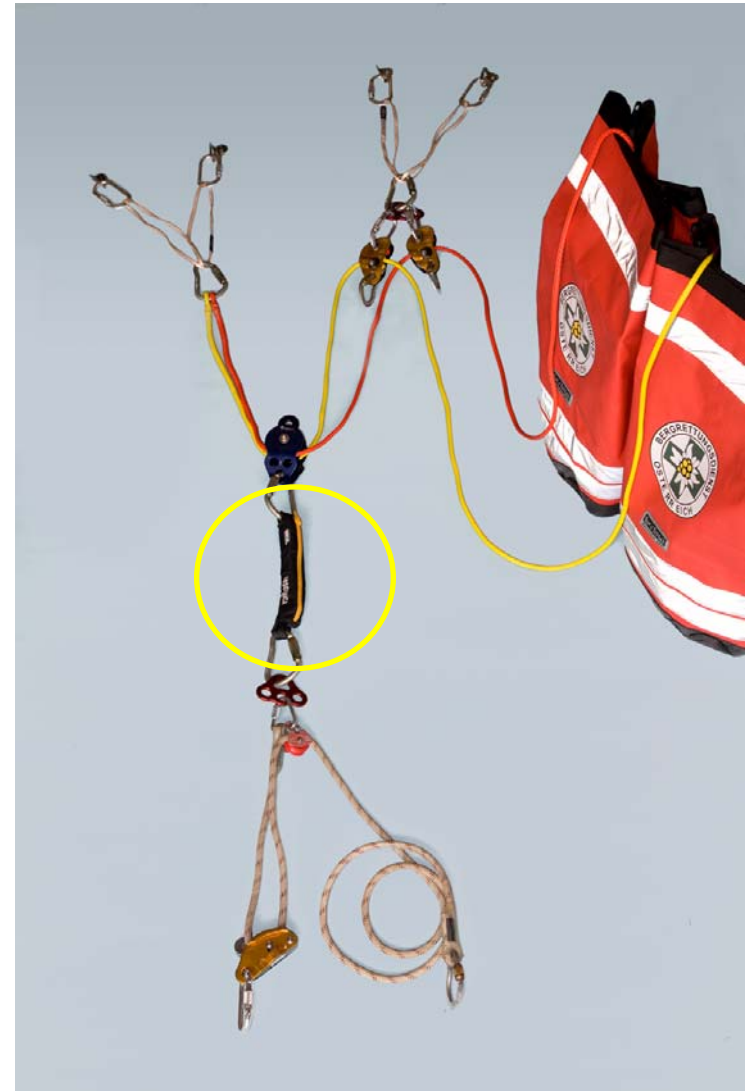
- On a PROTRAXION used together with a dyneema rope, the weakest link can be the PROTRAXION

System adaptation

Meeting Petzl / Peter
VEIDER

Necessity to introduce some
energy absorption in the
system (role usually played
by kernmantel rope)

Introduction of ABSORBICA
energy absorber to limit
energy in the system



Conclusion

A system analysis is important, especially when the use does not follow manufacturer authorized use.

It has to be worked out together with the manufacturer.