

Lagondaforum: DB3L Rear hub serrated drive

DB3L Rear hub serrated drive

Written by ken douch at Feb 15, 2013 2:49 am

Have just removed the RH coupling and found the serrations fatigued.

Only half of the serrations have failed because only half of them transmit drive torque.

Help!

Is a repair feasible ?

Are there any spares available?

Ken

Attachments:

[DSCN2161.JPG](#) (filesize: 86.07 KB)

[DSCN2140.JPG](#) (filesize: 168.61 KB)

Re: DB3L Rear hub serrated drive

Written by yted at Feb 27, 2013 10:47 pm

Hi Ken,

I have the parts, but will need to dismantle to check the condition of the teeth.

Will do so in the next day or two,

Regards,

Mark

Re: DB3L Rear hub serrated drive

Written by yted at Feb 28, 2013 7:27 am

Hullo Ken,

I have dismantled the hub carriers that I bought from Ivan Forshaw (Aston Service Dorset) in 1969. the offside inner flange is perfect, the outer is missing one half of an inner tooth.

Having never mastered the art of putting a photo up on this forum - despite Peter Schirg telling me how to years ago - I will send photos if you wish to your email address.

Regards,

Mark

Re: DB3L Rear hub serrated drive

Written by ken douch at Feb 28, 2013 7:24 pm

Thanks Mark

I know what you mean about photos; 200 K is smaller than usually taken and either you photo-reduce or set the camera to a small frame size and hope it is a small enough file

About serrated drives, I wonder how many DBLs are about to fail

At wheel lock up or wheel spin a torque of about 1000 lb-ft is transmitted. For a 1.575 OD 0.75 ID shaft this calculates to 15.45 KSI

A spline has 50% area and the serrated version 25% area so the stress can reach 62 KSI . As the hub appears to be a low carbon steel this is asking for problems even under normal driving conditions

May be we should advise our co-owners to check the tightness of their 3/4 bolts!

Ken