14 September 2016

Report Number: 9214/16

RoadSafe Automotive Products Pty Ltd 10 Macbeth Street Braeside Vic 3195

Attention: Mr Troy Schipper

Dear Sir

Reference: Toyota FJ Upper Blackhawk Control Arm Review

In accordance with your request, our Company has reviewed the provided documents in relation to the aftermarket upper control arm replacement as suited for the Toyota FJ Cruiser 15 Series.

There are no Australian Design Rules related to the replacement of upper control arms.

The purpose of this replacement upper control is to restore the OEM geometries after suspension lifts in excess of 30 mm are carried out on a vehicle. Vehicle lifts that do not exceed 50 mm suspension only lifts do not require VASS certification in accordance with Vehicle Standards Bulletin 14.

A comparison FEA report was provided by View7 showing the deflection under an applied load of 300 kg, also provided were computer generated reports under different load applications. The method of component restraint and load application appear to be acceptable, however results remain the responsibility of View7.

It would be deemed acceptable to assume that the replacement Blackhawk Control arm is fit for purpose under correct use. Further load assessments including full material specification comparison would be required for us to confirm component strength comparisons.

The Blackhawk Upper control arm strength ratings, quality control and conformity of production remain the responsibility of the manufacturer.



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## ROADSAFE AUTOMOTIVE PRODUCTS PTY LTD

## TOYOTA FJ CRUISER UPPER CONTROL ARM REPLACEMENT

We thank you for having given us the opportunity of being of service to you and include our memorandum of fees herewith.

Yours faithfully