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ABMARC
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Prepared for Steve Altair
euro spares depot
25-29 Letcon Drive Dandenong South,
Victoria 3175

RE: ADR 35/05 Compliance Assessment for EuroSpares Depot Front & Rear Brake Kits

ABMARC has been engaged by EuroSpares Depot to support the design validation of their range of front and rear brake conversions and upgrade kits that they have designed for light commercial vehicles.

Each conversion/upgrade kit was evaluated against the following criteria:

1. ADR design requirements:
 - a. Suitability/ Compatibility
 - b. Strength and Bending Moment of the Supplied Caliper Mounts
 - c. Fluid Reservoir Capacity
2. Brake Performance

The following vehicles have been assets using the criteria's above for the following Cooldrive front and rear brake kits and are complaint with ADR35/05.

Front Brake Upgrade Kit

| Make | Model | Model Reference | MY | Brake Kit | Cooldrive Brake Kit Number |
|-------------|----------------------|------------------------|----------------------|------------------|-----------------------------------|
| Ford | Ranger | PX, PXII | from 2012 onwards | 6 Pot Caliper | HUK001 |
| Holden | Colorado Trailblazer | | from 2012 -10/2017 | 6 Pot Caliper | HUK002 |
| Isuzu | D-Max | RT50, RT85 | from 2012 onwards | 6 Pot Caliper | HUK002 |
| Holden | Colorado Trailblazer | Trailblazer | From 10/2017 onwards | 6 Pot Caliper | HUK003 |
| Toyota | Hilux | GUN126R, GGN125R | From 10/2015 onwards | 6 Pot Caliper | HUK004 |

Rear Brake Upgrade Kit

| Make | Model | Model Reference | MY | Brake Kit | Cooldrive Brake Kit Number |
|--------|-----------------------|------------------|------------------------|--------------------|----------------------------|
| Toyota | Hilux Vigo 150 Series | GGN25R, KUN26R | from late 2008 onwards | Single Pot Caliper | HUC001 |
| Toyota | Hilux Revo Gen8 | GUN126R, GGN125R | from 2015 onwards | Single Pot Caliper | HUC002 |
| Ford | Ranger | PX, PXII | from 2012 onwards | Single Pot Caliper | HUC003 |
| Mazda | BT 50 | | from 2012 onwards | Single Pot Caliper | HUC003 |
| Isuzu | D-Max | | from 2012 onwards | Single Pot Caliper | HUC004 |
| Nissan | Navara | NP300 D23 | from 2015 onwards | Single Pot Caliper | HUC007 |
| Toyota | Hilux | GGN25R, KUN26R | up to early 2008 | Single Pot Caliper | HUC008 |

Yours faithfully,



Andrea Winkelmann



Certificate Number: 1068530

Vehicle and Certification particulars (to be completed in full)

| | | |
|---|----------------------------------|--|
| Make and model TOYOTA HILUX REVO GEN8 | Engine number _____ | VIN/Chassis Number _____ |
| Registration Number (if applicable) N/A | Odometer reading _____ | ICV Job reference number (if applicable) N/A |
| Inspection date 13 / 05 / 20 | Time 2030 | Inspection location (address) 27 CRESTHAVEN DR MANSFIELD QLD |
| Certification date 13 / 05 / 20 | Time 2030 | Certification address AS ABOVE |
| Modification plate serial number N/A | | |

| Modification code number | Description of Modification (in detail) | ADRs checked for continued compliance |
|--------------------------|--|---------------------------------------|
| LG1 ONLY | DESIGN CODE 1068530 COVERS THE DESIGN OF COOLDRIVE REAR SINGLE PISTON DISC BRAKE CONVERSION KIT PART NUMBER HUC002. | 31/04 35/06 42/05 |
| | KIT + DESIGN CODE ARE APPLICABLE TO - 2015 ONWARDS TOYOTA HILUX REVO GEN 8 | |
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Approved Person's certification

I certify that this modification(s) complies with the Approved Code of Practice for Modifications under the *Transport Operations (Road Use Management - Vehicle Standards and Safety) Regulation 2010* or *Heavy Vehicle National Law Act (Queensland)* including its associated conditions for that class of vehicle.

I certify that I have inspected the above-mentioned vehicle and that the modification(s) has not adversely affected the vehicle's compliance with the applicable ADRs. I also confirm that the modification(s) has been carried out according to good engineering practice, and has not reduced the safety of the original vehicle. I hold the required supporting documentation and evidence for this certification, including any applicable drawings, specifications, analysis reports, calculations, test data or photographs.

I certify that, where the certification of the modification requires it, I have attached a modification plate to the vehicle in accordance with, for light vehicles, the *Transport Operations (Road Use Management - Vehicle Standards and Safety) Regulation* and for heavy vehicles, the *Heavy Vehicle National Law Act (Queensland)*.

I certify the information and statements in this certificate are true and correct.

Approved Person's particulars

| | | |
|---|---|-----------------------------|
| Approved Person's name (print) THOMAS WILLIAM GARDNER | | |
| Accreditation (MA) Number MA3381 | Approved Person's signature [Signature] | Date 13 / 05 / 20 |
| Employer's name (if applicable) SPECTRE VEHICLE ENG | | |
| Employer's address (if applicable) 27 CRESTHAVEN DR MANSFIELD QLD | | |
| | | Postcode 4122 |

CHECKLIST LG1
BRAKE SYSTEM CONVERSION (DESIGN)
CODE LG1

(N/A=Not Applicable, Y=Yes, N=No)

| | | | | |
|----------|--|-----|---|---|
| 1 | COMPONENTS | | | |
| 1.1 | Are all components and equipment in the brake system specified to comply with relevant Standards outlined in sub-section 2 <i>General Requirements</i> ? | | Y | N |
| 2 | CALIPER BRACKETS | | | |
| 2.1 | Have the caliper brackets and mountings been designed to adequately cope with the forces generated during severe braking? | N/A | Y | N |
| 3 | MASTER CYLINDER | | | |
| 3.1 | Has the master cylinder and its mounting been correctly selected and specified? | N/A | Y | N |
| 4 | WORKMANSHIP | | | |
| 4.1 | Has all work, that has been specified in the certification of the LG1 brake system conversion, been determined in accordance with recognised engineering standards and the relevant Appendices of Section LZ <i>Appendices</i> ? | | Y | N |
| 5 | COMPLIANCE WITH ADRS | | | |
| 5.1 | Does the design ensure the completed vehicle will continue to comply with the applicable ADRs? | N/A | Y | N |
| 6 | TESTING | | | |
| 6.1 | Has all required testing been completed and results recorded? | N/A | Y | N |

Note: If the answer to any question is **N (No)**, the design cannot be certified under Code LG1.

[Continued Overleaf]

CHECKLIST LG2
BRAKE SYSTEM CONVERSION
CODE LG2

(N/A=Not Applicable, Y=Yes, N=No)

| | | | | |
|-----------|--|-----|---|---|
| 1. | DESIGN | | | |
| 1.1 | Has the vehicle been modified in accordance with the plans and specifications issued under: Design Approval No..... | N/A | Y | N |
| 2. | WORKMANSHIP | | | |
| 2.1 | Is all work, including welding, of satisfactory quality and has all work been performed in accordance with recognised engineering standards? | | Y | N |
| 3. | FASTENERS AND WELDING | | | |
| 3.1 | Do all fasteners comply with the applicable requirements of Section LZ <i>Appendices - Appendix A Fasteners</i> ? | N/A | Y | N |
| 3.2 | Does the quality of welding comply with the applicable requirements of Section LZ <i>Appendices, Appendix C Heating and Welding of Steering Components</i> ? | N/A | Y | N |
| 4 | INSPECTION and TESTING | | | |
| 4.1 | Has an inspection been carried out on the installation and all modified components and found to be satisfactory? | | Y | N |
| 4.2 | Has the vehicle been road tested and the braking system found to operate satisfactorily? | | Y | N |

NOTE: If the answer to any question is **N (No)**, the modification cannot be certified under Code LG2.

[Continued overleaf]