

Product Type Approval Certificate

Full

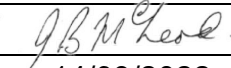
This certificate is issued to:

Supplier name and address:	Statewide Bearings (SWB Plus) 67 Kewdale Road, Kewdale, WA, 6105 Australia
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In respect of:

Manufacturer:	Oleo Buffers Shanghai (Savery Hydraulic Technology (Shanghai) Co. Ltd.)
Place of manufacture:	Songjiang, Shanghai
Product description:	Oleo Friction Hydraulic Buffer Stop – SH Type 4 to 720.
Use approved for:	This product is approved to be used on TfNSW heavy rail passenger terminals, depots and sidings for all passenger rolling stock.
Conditions of approval:	<ol style="list-style-type: none"> 1. The user shall consult with OLEO to ensure the suitability of the buffer stop for its intended application. The design shall be confirmed against project scope requirements and the applicable rolling stock. 2. This Type Approval Certificate will be subject to review within a period not exceeding 5 years. 3. The place of manufacture shall hold International Quality System Certification at all times. 4. Should the presence of any previously unidentified defect or condition in service arise, it shall require further collaborative investigation. 5. The supplier or manufacturer must advise AMB, TfNSW of any changes made to the product or system that may alter its identification, performance characteristics, form, fit, function, processes required for correct usage or place of manufacture to enable review and revision of this approval.

Evaluating rail transport operator

Name:	John Mcleod
Position:	Director Corridor Infrastructure & Engineering Asset Management Branch, Safety Environment and Regulation, Transport for NSW
Signature:	
Date:	14/09/2022

Product approval pack reference number: qA6664620

Annexure 1 Supporting Documents

Title	Document Number	Evaluating Authority	Issued
RRDMB – Product Type Approval Submission – Hydraulic Friction Buffer Stops	A48976 Revision 7	TA Savoury and Co. Ltd, Oleo International	Rev 7 Dated 4/08/2022
Drawings	Annex A	Oleo International	Rev 7 Dated 30/05/2022
Dynamic Simulation Reports (SH & SHI)	Annex B & C, 564056 Rev 2	TA Savoury and Co. Ltd, Oleo International	Dated 21/12/2021 Rev 7 Dated 4/08/2022
FEA Report	Annex D	TA Savoury and Co. Ltd, Oleo International	Dated 4/08/2022
Installation and Maintenance Manual (including friction shoes installation & maintenance)	Annex E	TA Savoury and Co. Ltd, Oleo International	Dated 2/2022 Submission Dated 4/08/2022
Friction shoe testing report	D2021-005, Annex F	Shanghai railway Bureau	16/09/21
Quality Assurance Plan	Annex G	TA Savoury and Co. Ltd, Oleo International	Rev 00, 24/05/2022
RAMS FMECA Report	Annex J	TA Savoury and Co. Ltd, Oleo International	Rev 01, 30/05/2022
Package Handling and storage	Annex K	TA Savoury and Co. Ltd, Oleo International	Rev 0, dated 26/5/2022
Oleo Buffer Stop reference list	Annex L	TA Savoury and Co. Ltd, Oleo International	Rev 7 Dated 4/08/2022
Installation checklist	9383291 Rev C	TA Savoury and Co. Ltd, Oleo International	Rev C
Scheme diagrams of final drawings	Annex E Installation and Maintenance Manual	SWP and Oleo International	Dated 17/01/2022
Supplier SWB Plus QA certification	AU96/704	ISO9001 SGS	From 7 July 2020 until 24 June 2023
Manufacturer Oleo Buffer Shanghai	FM510279	ISO9001 BSI	From 12 July 2021 until 11 July 2024