

<b>Lead standards committee:</b>	Rolling Stock - RST	<b>Date:</b>	
<b>Support standards committee:</b>	Plant - PLT	<b>Date:</b>	
<b>Subject:</b>	60m review of GMGN2682 issue 1, <i>Approval of Changes to Axle Bearing Lubricants</i>		
<b>Sponsor:</b>	Mark Oakley, Professional Head of Rolling Stock		
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## 1. Purpose of the paper

- 1.1 This paper sets out the outcome of the 60-month review of GMGN2682 issue one, *Approval of Changes to Axle Bearing Lubricants*. Standards committee approval and support is sought for the recommendation and way forward.

## 2. Background

- 2.1 GMGN2682 issue one, *Approval of Changes to Axle Bearing Lubricants* was reviewed after 12 months following the publication date and again after 24 months.
- 2.2 The standard was written at the request of, and with significant contribution from, the BSI Bearings and Lubricants Mirror Group RAE/3/-/2 to address the confusion of expectations for the management of change to axle bearing lubricants that had been introduced prior to the application of current standards.
- 2.3 The need for the document was underpinned by the potential need to withdraw a commonly used grade of grease that has been specified and applied for several years -MP3. Suppliers were notified that the grease was withdrawn around the time when the document was published.
- 2.4 The document relates exclusively to the management of bearing grease change and refers extensively to RIS-2700-RST issue 1 which sets out the general principles and processes for the management of engineering change. Where the document refers to RIS-2700-RST, it provides guidance on how to apply the principles in the context of axle bearing greases to ensure that the replacement grease is demonstrated to meet the performance requirements of the original application as a minimum.

## 3. Impacts on the standard(s) following publication/entering into force

- 3.1 Consideration has been given to the following during the review:
- a Business case for change – GMGN2682 issue 1 was successfully implemented, and all objectives were met at the time of publication.
  - b Deviations –as a guidance note, GMGN2682 issue 1 does not require a deviation to be able to apply an alternative approach. Standards committees have not been consulted on any potential alternatives to the requirements in the standard.
  - c Current projects or proposals being processed – None

- d Amendments and clarifications – There have been no amendments or clarifications issued against GMGN2682 issue 1.
- e Enquiries – Since publication, there have been no formal enquiries or documents associated with its content.
- f Research projects – The document has been discussed extensively in support of the new replacement greases such as Shell Gadus and Mobilith SHC-100 greases used by bearing manufacturers. Feedback from the application of such greases from end users was analysed.
- g Regulations – Guidance remains consistent with current legislation.
- h National technical specification notices (NTSNs) and European standards – The current revision of GMGN2682 issue 1 extensively refers to TSIs and older versions of European standard 12082. Following the UK's departure from EU, references to TSIs need to update with latest NTSNs.
- i Changes in technology – The grease testing technology or the method of testing remains same as previous.
- j Are there any barriers to adoption? – No conflict observed with requirements to BS EN 12081:2017 or BS EN 12082:2017.
- k Any other observations – None.

## **4. Discussion**

### **4.1 Review outcome**

- 4.1.1 The document was written and published to pre-empt a potential significant change to axle greases which has since been realised and the document is proving to be relevant. However, the current issue requires aligning with legislation changes related to the UK leaving the European Union and requires referencing to updated in line with the latest versions of European standards.

## **5. Recommendations**

- 5.1 The standard committee(s) will be asked to:
  - a DISCUSS the outcome of the five-year review, the consultation comments and draft responses and the proposed recommendation:
    - i Action required:
      - Publish a point release to update document references.
  - b APPROVE/SUPPORT as appropriate:
    - The lead standards committee to approve the recommendation, the draft responses to consultation and the next review date no later than September 2030.
    - The support standards committee(s) to support the recommendation.

- c APPROVE conclusion of the review process.

The lead standards committee to approve the review process is concluded.

RSSB completion: [\[do not delete\]](#)

Standards committee	Meeting date	Decision	Minute numbers		Next review date approved by the lead standards committee
			Pre-consultation review	Post-consultation review	
<a href="#">Rolling Stock</a>					
<a href="#">Plant</a>					

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