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# SERVICE BULLETIN

## MANDATORY

No: SB\_SD4-04-2023

Date: 14.SEP 2023

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Approval:

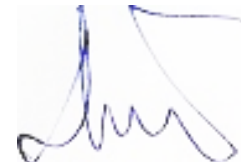
SB issued by AEROSERVIS s.r.o.  
The technical content of this document is approved under the authority  
of the DOA ref. EASA.21J.094.

<b>MODEL AFFECTED:</b>	EASA-TCDS No. EASA.A.606
<b>APPLICABILITY:</b>	<b><u>Viper SD-4 RTC aircraft equipped with the Rotax 912ULS engine.</u></b>
<b>SUBJECT:</b>	Exchange of stator assembly for Rotax 912ULS aircraft engine Exchange of propeller shaft on Rotax 912ULS aircraft engine
<b>COMPLIANCE:</b>	Carry out the service bulletin: - on every ROTAX 912 ULS engine installed on Viper SD4 RTC aircraft in service after the date of this service bulletin, and before installation of an ROTAX 912 ULS engine on Viper SD-4 RTC aircraft
<b>DESCRIPTION:</b>	TOMARK, s.r.o. as holder of EASA.A.606 has not identified any of Viper SD-4 RTC aircraft, in service or in production, equipped with a Rotax 912ULS engine that would be affected by MANDATORY Service Bulletins SB-912-077UL and SB-912-078UL issued by the engine manufacturer BRP-Rotax GmbH & CO KG. However, the installation of a Rotax 912ULS engine that is affected by these service bulletins by a maintenance organization on a Viper SD4 RTC aircraft in service cannot be excluded in the future.
<b>REASON:</b>	Internal quality checks of Rotax 912ULS engines manufacturer revealed that due to a deviation in the manufacturing process, some stator assemblies, specified in SB-912077UL, may fail on one ignition circuit, and due to a deviation in the machining process of the propeller shaft, the affected batch, with S/N numbers specified in SB-912-078UL, shows abnormalities on the surface. This could lead to increased wear of the propeller shaft bearings and subsequent serious engine problems.
<b>MANPOWER:</b>	See Rotax SB-912-077 Paragraph 1.7) and Rotax SB-912-078 Paragraph 1.7)
<b>MATERIAL:</b>	<b><u>Required tools for inspection and replacement:</u></b> In accordance with the relevant Maintenance Manuals
	<b><u>Required parts/material for check and/or replacement:</u></b> See Rotax SB-912-077 Paragraph 2.3) and SB-912-078 Paragraph 2.3)
	<b><u>Special tooling / compounds:</u></b> See Rotax SB-912-077 Paragraph 2.6) and Rotax SB-912-078 Paragraph 2.6) and accordance to the relevant Maintenance Manuals.
	<b><u>Interchangeability of parts:</u></b> All respective parts are interchangeable.

<b>REFERENCES:</b>	<p>/1/ Rotax SB-912-077 (d07062.pdf; dated: 12 July 2023, Initial Issue)</p> <p>/2/ Rotax SB-912-077UL (d07063.pdf; dated: 12 July 2023, Initial Issue)</p> <p>/3/ Rotax SB-912-078 (d07066.pdf; dated: 25 July 2023, Initial Issue)</p> <p>/4/ Rotax SB-912-078UL (d07067.pdf; dated: 25 July 2023, Initial Issue)</p> <p>/5/ Installation Manual for Rotax Engine Type 912 Series (IM-912; P/N: 898644, current issue)</p> <p>/6/ Operators Manual for Rotax Engine Type 912 Series (OM-912; P/N: 899700, current issue)</p> <p>/7/ Maintenance Manual for Rotax Engine Type 912 Series (MML-912; P/N: 899196, current issue)</p> <p>/8/ Illustrated Parts Catalogue (IPC-912; P/N: 899473, current issue)</p> <p>NOTE I: All referenced documents are available on Rotax website <a href="https://www.flyrotax.com/services/technical-documentation.html">https://www.flyrotax.com/services/technical-documentation.html</a></p> <p>NOTE II: The status of the Manuals can be determined by checking the table of amendments. The 1st column of this table shows the revision status. Compare this number to the one listed on the ROTAX website mentioned above in NOTE I.</p> <p>NOTE III: Updates and current revisions can be downloaded for free from website mentioned above in NOTE I.</p>
<b>WEIGHT and BALANCE:</b>	Change of weight - none Moment of inertia – unaffected
<b>ELECTRICAL LOAD DATA:</b>	Not affected
<b>SUPPORT INFORMATION:</b>	Any possible support for Viper SD-4 RTC aircraft contact: TOMARK s.r.o., Strojnícka 5, 080 01 Prešov, Slovak republic <a href="http://vipersd4.com/contact/">http://vipersd4.com/contact/</a> , E-Mail: <a href="mailto:service@tomarkaero.com">service@tomarkaero.com</a>
<p><b>ACCOMPLISHMENT INSTRUCTIONS:</b></p> <ol style="list-style-type: none"> <li>1) For aircraft in operation, it must be checked <b>before next flight</b> to ensure that it does not match the engine group listed in the Rotax SB-912-077UL or Rotax SB-912-078UL documents. If it does, the instructions in Rotax SB-912-077 - Replacement of Stator Assembly for Rotax 912 (Series) Aircraft Engines and Rotax SB-912-078 - Propeller Shaft Replacement for ROTAX Type 912 (Series) Engines must be followed prior to next flight.</li> <li>2) For each newly installed engine in a Viper SD4 RTC aircraft in service, it must be checked to ensure that it does not match the engine group listed in the Rotax SB-912-077UL or Rotax SB-912-078UL documents. If it does, the instructions in Rotax SB-912-077 - Replacement of Stator Assembly for Rotax 912 (Series) Aircraft Engines and Rotax SB-912-078 - Propeller Shaft Replacement for ROTAX Type 912 (Series) Engines must be followed prior to installation.</li> <li>3) Report accomplishment of this Service Bulletin to Viper SD-4 RTC aircraft producer. For contact see "SUPPORT INFORMATION" field of this Service Bulletin. You can send it by e-mail also to e-mail address: <a href="mailto:airworthiness@tomarkaero.com">airworthiness@tomarkaero.com</a> or <a href="mailto:letovasposobilost@tomarkaero.com">letovasposobilost@tomarkaero.com</a> or <a href="mailto:DOA@aeroservis.aero">DOA@aeroservis.aero</a>.</li> </ol>	



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