



## Test Monitoring Center

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Sequence IX Information Letter 24-3  
Sequence Number 9  
October 17, 2024

***ASTM consensus has not been obtained on this information letter. An appropriate ASTM ballot will be issued in order to achieve such consensus.***

TO: Sequence IX Surveillance Panel  
SUBJECT: Introduction of New Piston Types

During the September 25, 2024 conference call, the Sequence IX Surveillance Panel agreed to allow the use of BC grade pistons and pistons manufactured by IMTS. The panel also agreed to add a table to document which rings are to be used with the different piston types. Section 7.2.1 of Test Method D8291 has been updated to include these piston types and new table 5 has been added to document the appropriate rings to be used with the different piston types.

The revised text and/or section(s) have been highlighted in red and are effective for tests completing on or after October 9, 2024.

*/s/ M. D. Deegan*

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FCSD, Service Product Development, SEO  
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Jeffrey A. Clark  
Executive Director  
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Attachment

c: [https://www.astmtmc.org/ftp/docs/gas/sequenceix/procedure\\_and\\_ils/il24-3-ix.pdf](https://www.astmtmc.org/ftp/docs/gas/sequenceix/procedure_and_ils/il24-3-ix.pdf)

Distribution: Email

**Revises D8291-24 as amended by Information Letter 24-2**

7.2.1 ~~Use short blocks with installed pistons stamped with BB on the piston crown. Where BB stamped pistons are not installed, use pistons, part number AG9Z-6108-D14, stamped AA1 and AB1. Machined 2019 Grade BB<sup>15</sup> pistons (MACH2019) may also be used, where BB pistons have not been installed. A new engine must successfully demonstrate performance pursuant to LTMS new-engine calibration requirements. Pistons that have been found to be suitable include those stamped with BB on the piston crown, as well as AA1 and AB1. Machined 2019 Grade BB<sup>15</sup> pistons (MACH2019) and Grade BC pistons may also be used. Refer to table 5 for compatibility between rings and pistons.~~

New Table 5

<b>Piston Batch</b>	<b>Piston Part Number(s)</b>	<b>Acceptable Ring Part Numbers</b>	<b>Rings Description (info only)</b>
<b>BB</b>	AG9Z-6110-N*	AG9E-6148-AA AG9Z-6148-AFC AG9Z-6148-A AG9E-6148-AB	All rings: dark coatings on all sides, dots present
<b>AA1 and AB1 (Dealer Pistons)</b>	AG9Z-6108-D	AG9E-6148-AA AG9Z-6148-AFC AG9Z-6148-A AG9E-6148-AB	All rings: dark coatings on all sides, dots present
<b>MACH2019</b>	Original, unmachined piston PN: AG9Z-6108-D	AG9E-6148-AA AG9Z-6148-AFC AG9Z-6148-A AG9E-6148-AB	All rings: dark coatings on all sides, dots present
<b>IMTS</b>	IMTS-IX-LSPI-AC2-01	AG9E-6148-AA AG9Z-6148-AFC AG9Z-6148-A AG9E-6148-AB	All rings: dark coatings on all sides, dots present
<b>BC</b>	AG9Z-6108-Q GM5E-6110-AA	EJ7Z-6148-A EJ7E-6148-AA	Top Ring: not coated, stamped with "N1"  Other: dark coatings on all sides, stamped with "N2"

\*or as received in BB engine

Renumber Existing tables 5 – 12 as 6 – 13.