

Product Document Identification (PDI)

1. Purpose and scope

Product Document Identification (PDI) is the Bergen Engines AS (BEAS) system for traceability from physical marking on a component to relevant documents for this component. The documentation may include material certificates, pressure test reports, NDT reports, dimensional control reports, welding documentation or similar.

Marking of PDI number makes it possible to find the documentation for a unique component based on the identification marked on the component.

Requirements for material and production traceability through PDI numbering shall be specified on drawing and/or by including this procedure is included in the Bill of Material (BOM).

Documentation is included as part of the product /delivery.

Note! Cylinder heads, connecting rods and engine blocks are excluded from the scope of this procedure.

2. PDI numbering system

To have full traceability for relevant parts, the following procedure is to be followed:

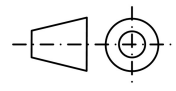

All parts to be marked with PDI number for unique identification. The position of the marking will normally be specified on the drawing. If in doubt, Bergen Engines must be contacted.

The marking shall include the following:

- * BEAS part number.
- * Day, month and year of production – in that order.
- * Running item number to identify unique component
- * Numbers are separated by “+”.

If there is limited space and impossible to mark all characters, B00/B01 in part number, and day in date, may be removed. For externally supplied components this shall be agreed with BEAS.

More detailed marking requirements may be specified on drawings or in procedures. This includes which information to mark, position, size, font etc as relevant for each component type.

Rev. E	Rev. D	Rev. C	Rev. B	Rev. A	Issue:	Original		Type: ALL
			MKj	MKj	Sign.:	RSka		KLS no.: 97
			09.01.23	14.10.20	Date:	10.12.2014		Replaced by:
			JHa	JHa	Check.:	KSF		Replaces:
			ØFB	SGu	Appr.:	KSF		Ref.:
							Title: Product Document Identification (PDI)	Drawing no.: DR 1130/95

B1

Example 1:

Part No. *Date of production.* *Item no.*
B00234567 23.10.2019 1

PDI = B00234567.W+231019+1

(option, only if limited space: 234567.W+1019+1)

Example 2:

Part No. *Date of production.* *Item no.*
B01023456 25.07.2019 1

PDI = B01023456.D+250719+1

(option, only if limited space: 023456.D+0719+1)

If more than one piece is manufactured on the same date, continuous numbering to be done.

Suffix for class or work inspection certificate must be included (.W, .D, .L and similar).

B2 Certificates and reports to be sent electronically to cert.bergen@bergenengines.com, acc. to procedure DR5027/00.

3. Marking of charge/heat number

Marking with charge/heat number instead of PDI number may be used if:

- material traceability is required but unique numbering (PDI) is not required
- the part is made from only one raw material blank and has only one material certificate
- there are no other test reports or control documents for the part

Marking of charge/heat number shall normally be specified on the drawing or BOM of each part where this applies. If in doubt, contact Bergen Engines.

Please note that blank material with one charge/heat number may be used for several identical or different components. It must be evaluated carefully if charge/heat number is sufficient or if unique serial marking is required.

4. Marking of other information

Other types of information may be marked on parts if necessary. This may include reference numbers like production order number, numbering or information from supplier etc. This will normally be specified on the drawing or BOM. If in doubt, contact Bergen Engines.

5. Handling of PDI documentation in case of re-classified parts:

When a given part has received a certificate from a different classification society, all new documentation must be added to the original PDI documentation. The responsibility lies with the function that organizes the reclassification in question.

6. Storage of traceability list

Where required, material traceability shall be ensured by creating a separate traceability list for each unique PDI number. The list shall contain all heat/charge numbers for sub-parts and raw materials used to make the component or assembly.

The list may have different layout and contain different additional information for different types of parts, based on the requirements for each type of parts.

For BEAS production, the list shall be stored in the document archive (“Lyskopi”). For externally produced items, it shall be agreed if the list shall be stored by the supplier or submitted to BEAS.

The purpose of the list is to make it possible to find certificates and documents for each unique certified part.

Removing heat/charge no. from the original blank should be avoided as far as possible. If that is impossible, the heat/charge no. must be re-marked to the remaining material.

7. Reference Procedures:

B3

DR 5027/24 Marking Requirements – All Products
DR 5027/00 Certificates – Guidelines for Suppliers
DR5021/03 CE Marking of Tools and Equipment