

**MRT Sales**

Industrieweg 3A  
4181 CA Waardenburg

12-12-2025

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**Warranty report:** RGC-25-33817

We received an engine N47C20A MRE409924 (for a warranty claim with invoice nr GVF189484)  
Customer reference 189484.

**Description:**

Engine stops and wont restart

**Research:**

\* we received this engine without ancillaries \* the camshaft/bearings are ok \* the valve train is ok  
\* the cylinder head gasket is ok, no leakage \* in the oil/sump we find bearing material \* the 2nd con  
rod is discolored at the big-end \* the 2nd con rod bearing has seized and is discolored \* all other  
con rod bearings show friction marks \* the 3 main bearing has seized and rotated in the caps \* all  
other main bearings show fine radial stripes and extreme wear, the 4th has a sharp radial groove  
due to picked-up dirt \* the 2nd con rod journal and the 3th main journal show radial grooves \* the  
bore of the 3th main bearing caps is too small \* on the top lands of all pistons we see extreme carbon  
deposits \* on the skirts of the pistons we see vertical stripes \* on all piston rings we see fine vertical  
stripes \* in all cylinders we see fine vertical stripes \* the oil is extremely contaminated with carbon

**Cause:**

We see several problems in this engine, we see extreme carbon on the top lands of all pistons due to  
an incomplete combustion, this caused the extreme wear of all cylinders and piston rings. We also  
see a problem with the main bearings, the 3th main bearing cap is not ok, this caused in combination  
with the poor oil quality the seizure of the 3th main bearing. Dirt from this bearing caused the seizure  
of the 2nd con rod bearing.

**Conclusion:**

This engine failure is caused due to a mechanical failure of this engine, therefore we accept this  
warranty.

With kind regards,

**Ad de Ruiter**

Full size images can be accessed via the following link:

<https://rhenoybv.sharepoint.com/:f:/s/Garantiemeldingen/IgDVm019KgsWSaXG8H3BSJZ9AcAJxMe6l6t8eXdkAJfoHAW>