



MRT Sales
Industrieweg 3A
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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 to 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/IgDVm019KgsWSaXG8H3BSJZ9AcAJxMe6l6t8eXdkAJfoH Aw>