

Kirari NINJA Internal automatic image device of the vessel engine cylinder

It is the camera system which shot the image which is clear in the whole intercylinder part of large 2 stroke diesel engine without resolving. this system can take 360 degree photos of intercylinder with safely, easily and frequently of it.

System Model Name

DCLC-S01-A DCLC-S01-B



Kirari NINJA main unit DCLC-SP-NJ1

There is not special work as it resolves apart for the engine head. It diminish a time, the cost, the hard work and reduces dangerous risks

Purpose and use methods

Currently there were two ways, ① a release check which removes a cylinder cover in the cylinder interior-check, and goes inside and checks ② a non-released check to peep into the inside from the exhaust-hole. It takes more than 10 hours for the release inspection operation or it drove and the load which hangs over the worker was big and also the test run was the hard-work of need (it needs re-assemble the at some situations).

Kirari NINJA System is set to upper part of the piston. It a shuttle (One time piston up and down) takes about 10 minutes and it photographs the direction of the circumference in the intercylinder part automatically. It is possible to do that the visual data is acquired by all the cylinders at the time of the engine not running. Kirari NINJA, it reduces the work labor of the worker, a load in the time. Also, the condition inside the combustion chamber becomes able to be grasped over the details by imaging image and to be analyzed.

< Combustion chamber image >

Because it is possible to photograph in case of coming alongside the pier, it is possible to make a variation per historical data of every cylinder.

The preventive maintenance to have sensed

the sign of the trouble becomes possible.



Cylinder covers touch fire area

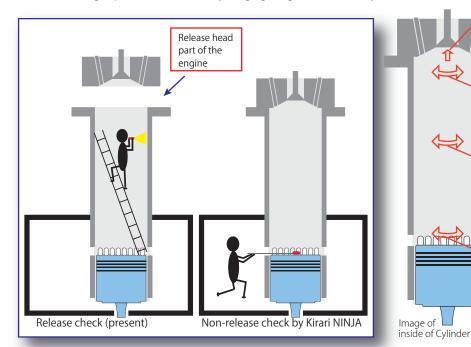


Vicinity top dead point





Vicinity bottom dead point





Company Profile

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