



Industrial Vision Systems

• Innovation • Knowledge • Success •

Trial Report for Synchronous Sleeve Inspection

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VISION SYSTEM BASED PRODUCT INSPECTION SYSTEM.

VISION INSPECTION SYSTEM developed by the TIVS is a comprehensive inspection solution for Deviation Identification on the samples regarding thickness. The Vision Sensor based Inspection system is compact in design and can be easily integrated into existing production lines. The system is programmed to identify common faults like non-uniform Thickness emanating from the production.

Highlights of the system

- ✓ Designed to work in the industrial environment.
- ✓ Can be easily integrated into the existing machinery.
- ✓ Easy menu based programming. Doesn't require knowledge of programming languages like C or C++
- ✓ Faster System Integration leading to Faster ROI.

Standard Solution Offering

The solution offering are strategically designed to suit the industry needs.

The system comprises of the following stations:

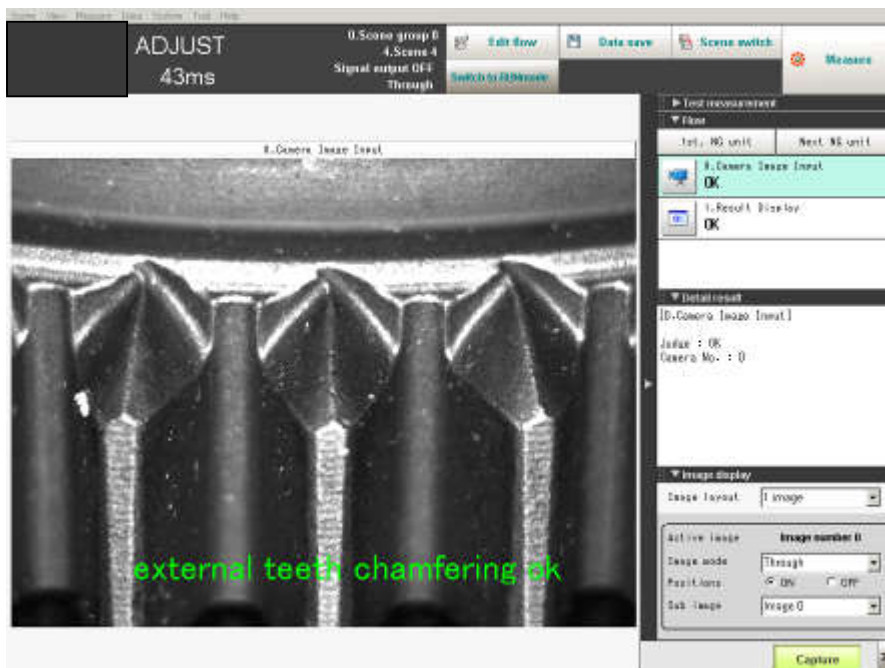
- Single Vision Sensor Inspection station.
- Single DISPLAY & HIGH SPEED CALCULATION processing System.
- Complete mounting accessories.

Inspection Report:

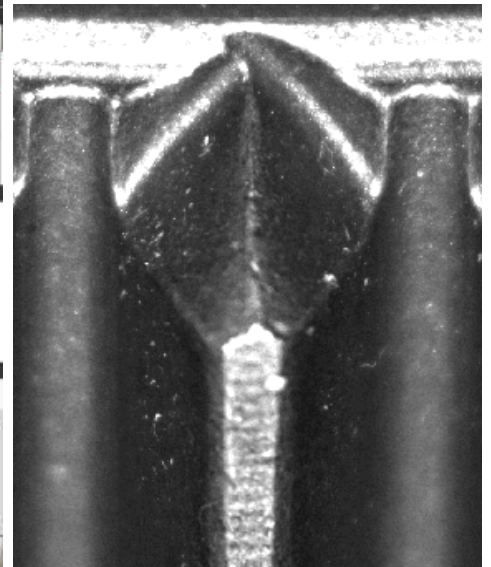
Application 1:

- To check the Desired Defects on the Synchronous Sleeve Samples.

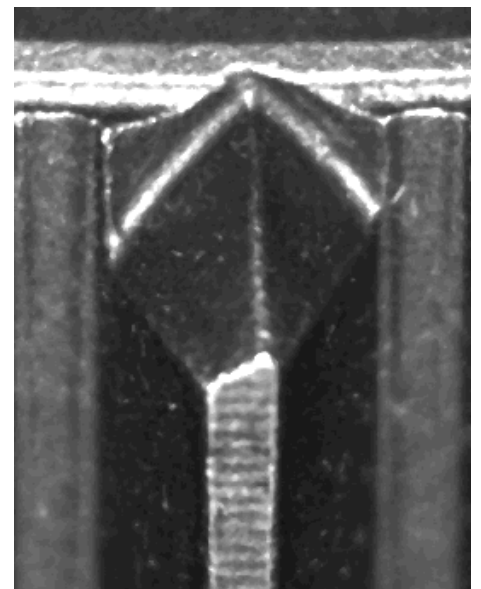
1. EXTERNAL TEETH CHAMFERING OFFSET



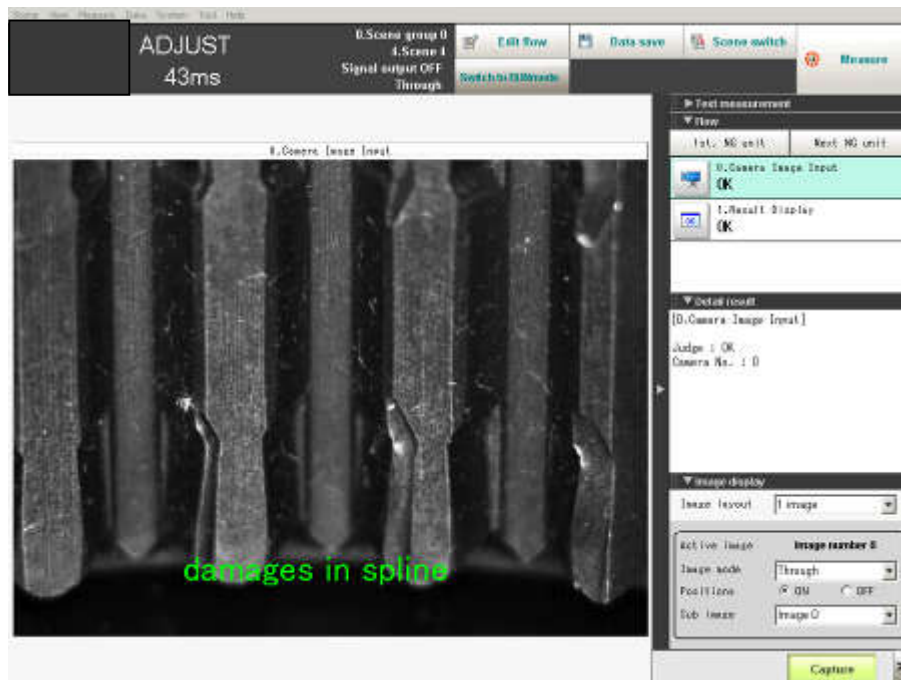
CLOSE VIEW



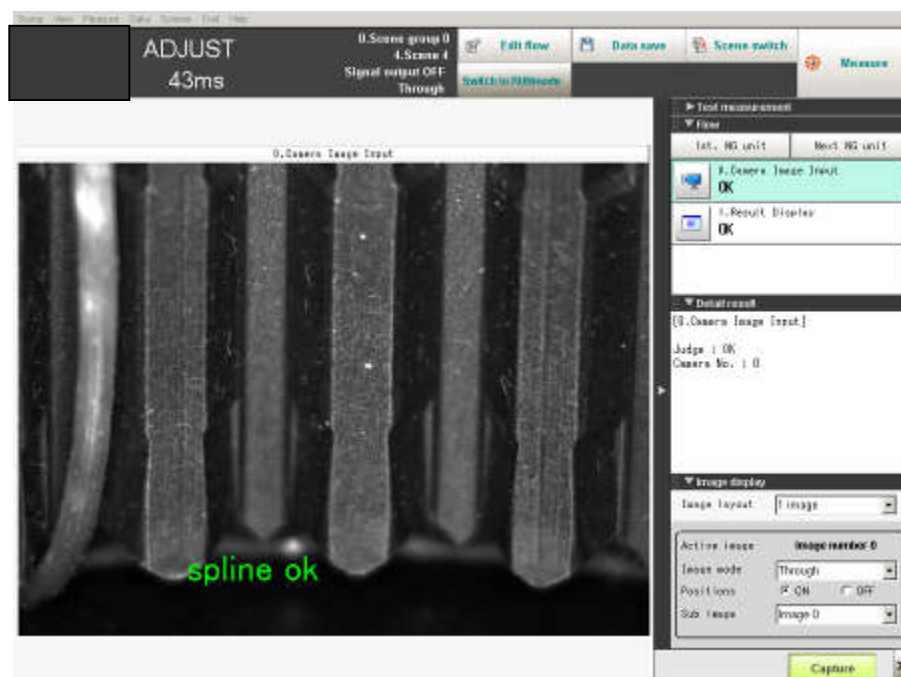
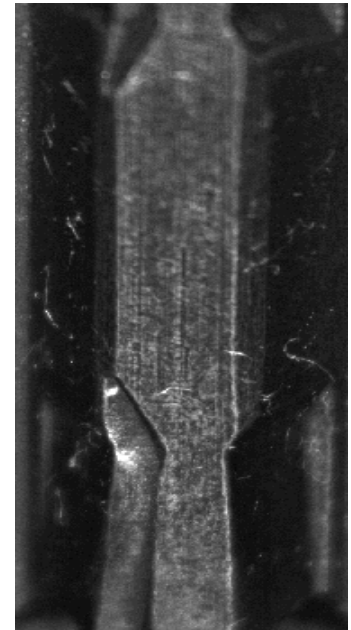
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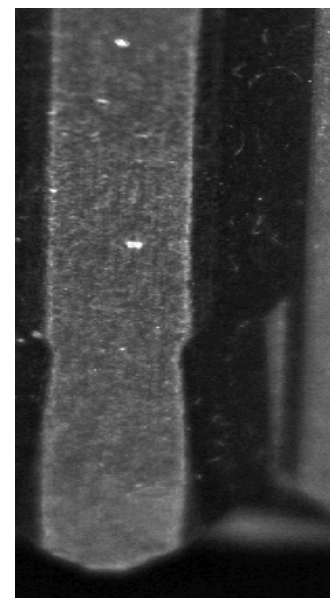
DAMAGES IN SPLINE



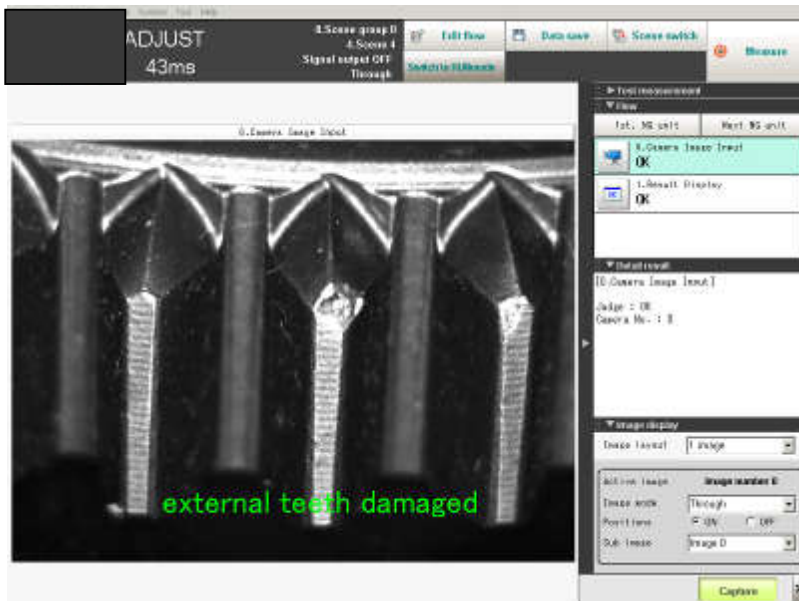
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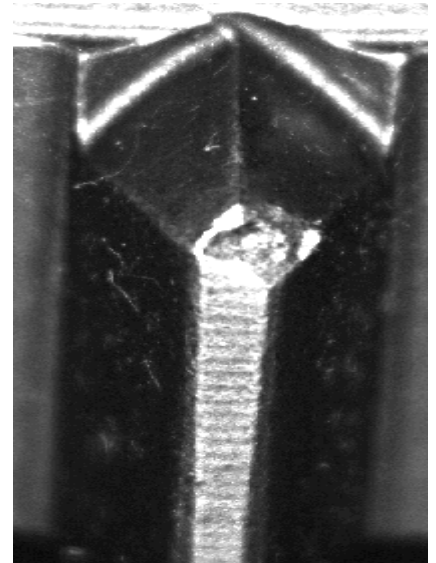
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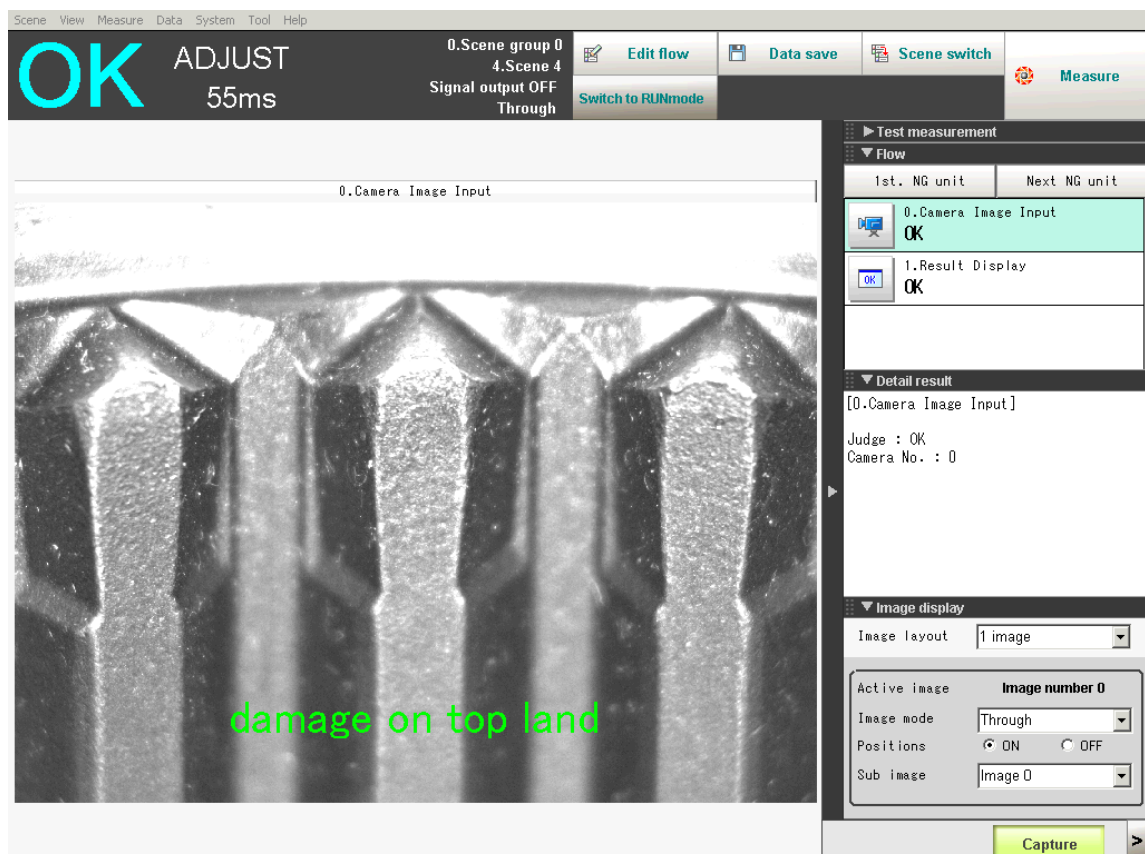
EXTERNAL TEETH DAMAGES



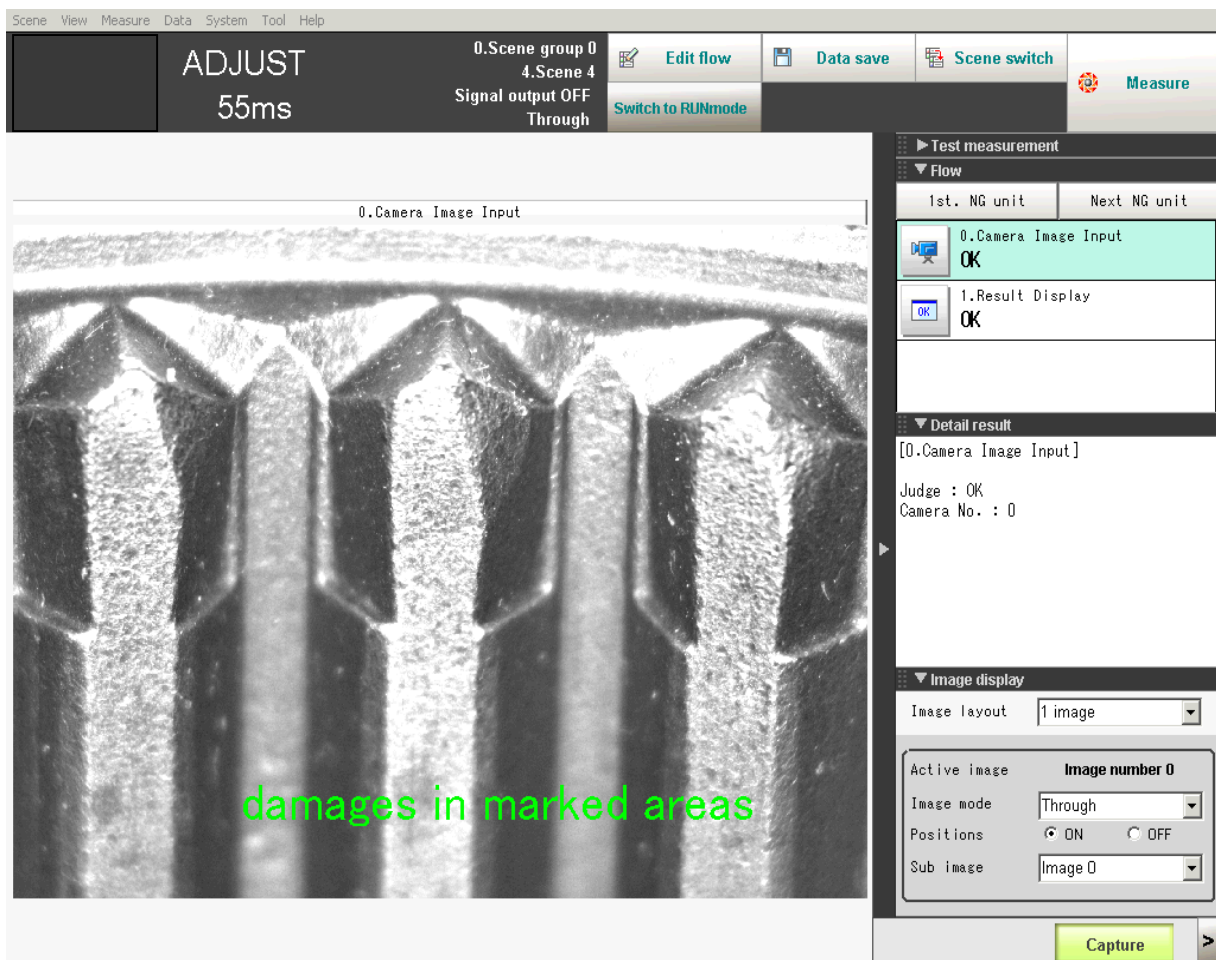
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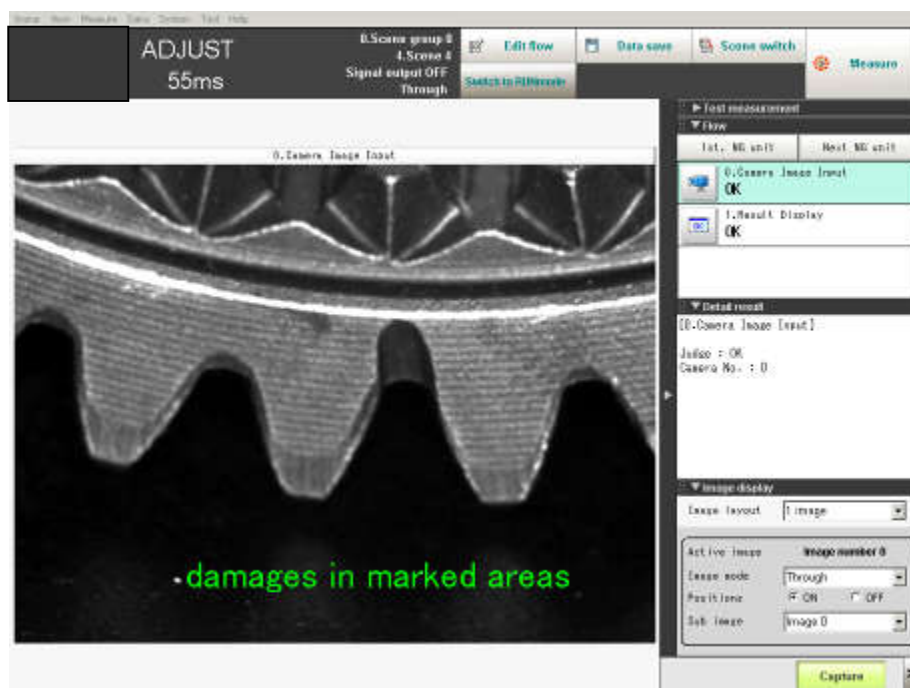
DAMAGES ON TOP LAND



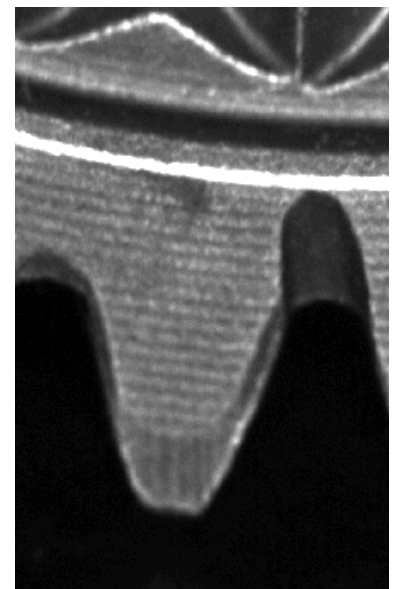
6. DAMAGES IN MARKED AREAS



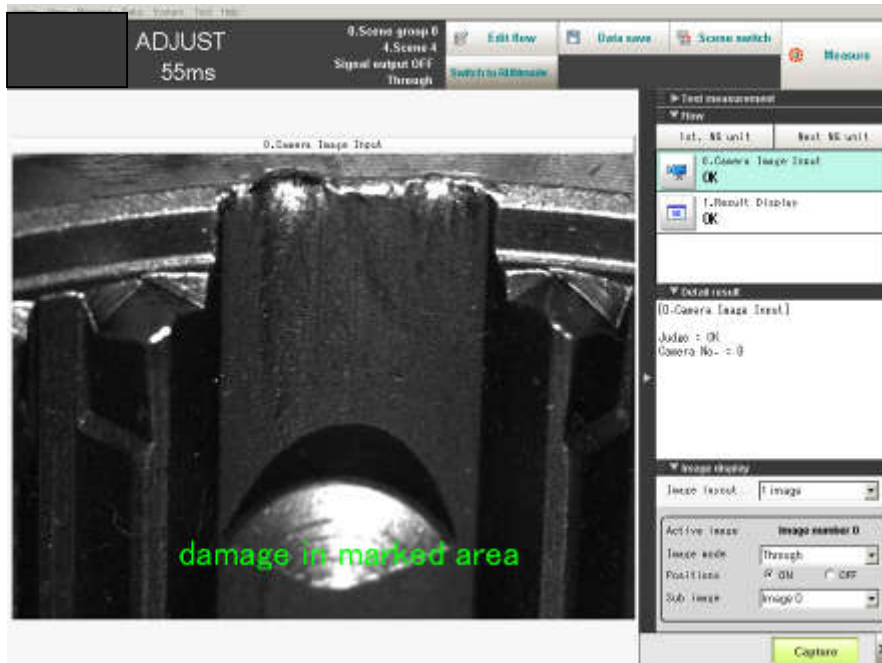
DAMAGES IN OUTER PROFILE.



CLOSE VIEW

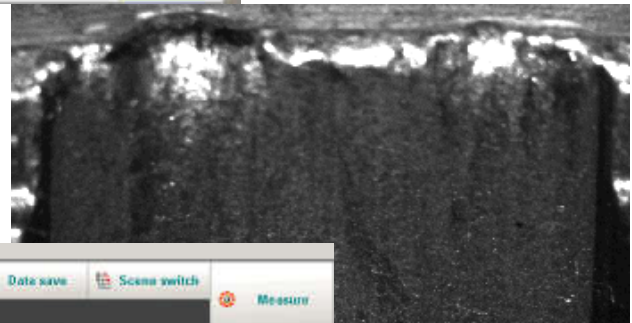


SCRATCH MARK ON INTERNAL SLOT



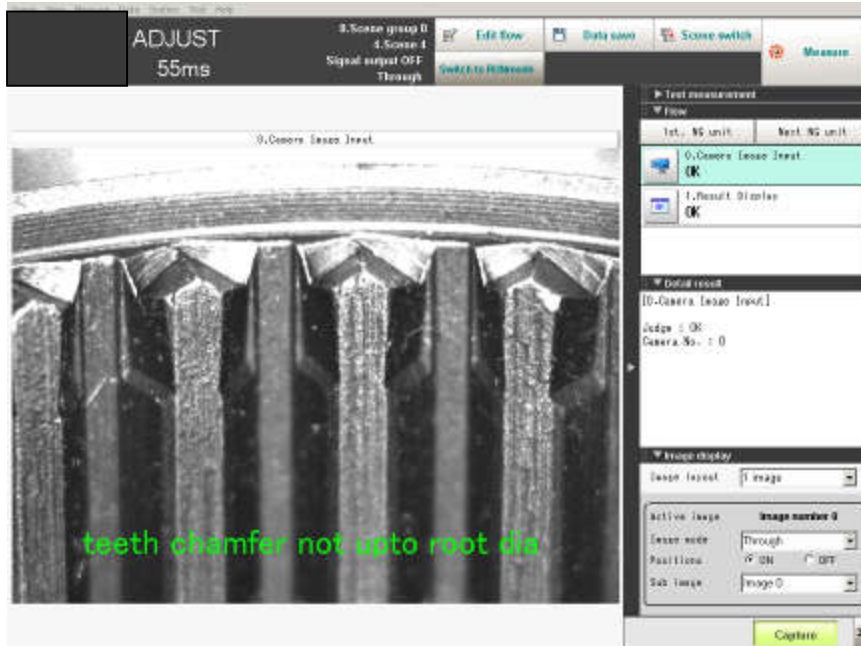
CLOSE VIEW

**THE DAMAGE MARKS
ARE CLEARLY SEEN ON
THE INTERNAL SLOT**

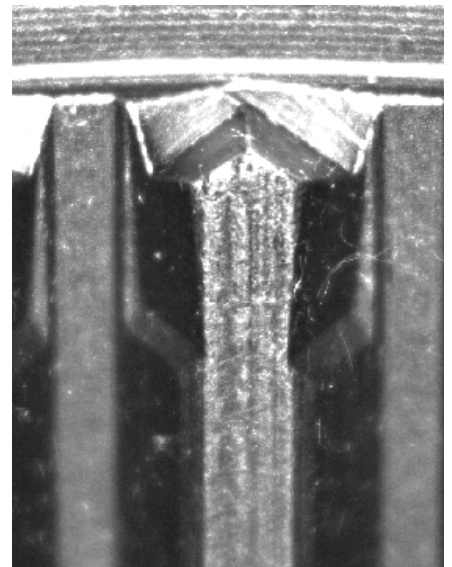


**THE SAMPLE HERE
IS WITHOUT
DAMAGES**

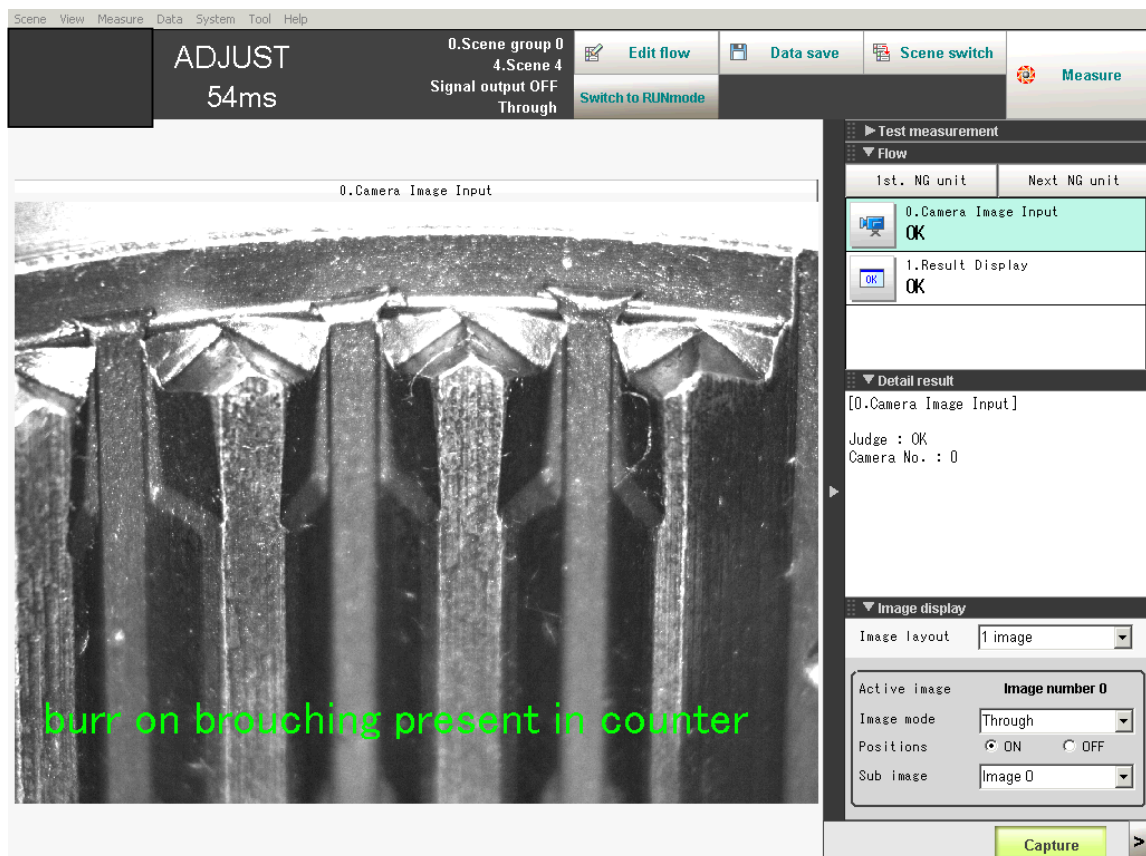
TEETH CHAMFER NOT UPTO ROOT DIAMETER

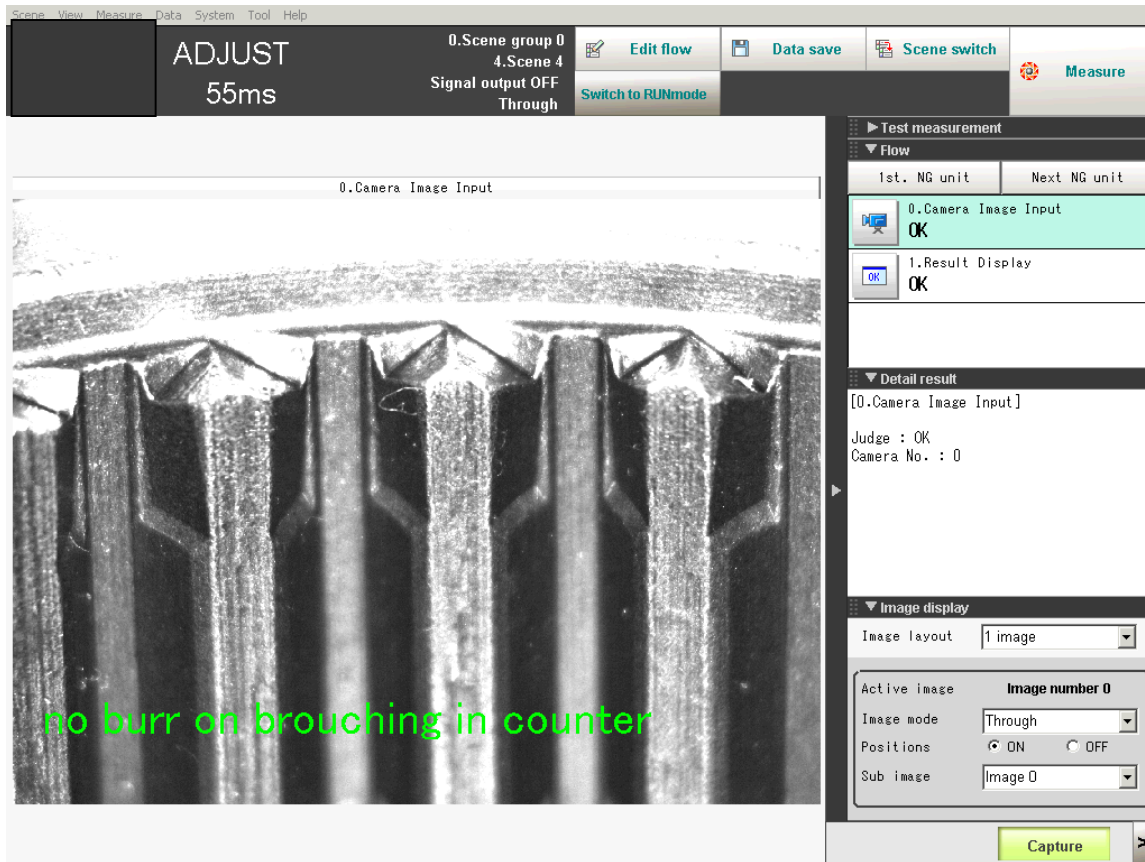


CLOSE VIEW

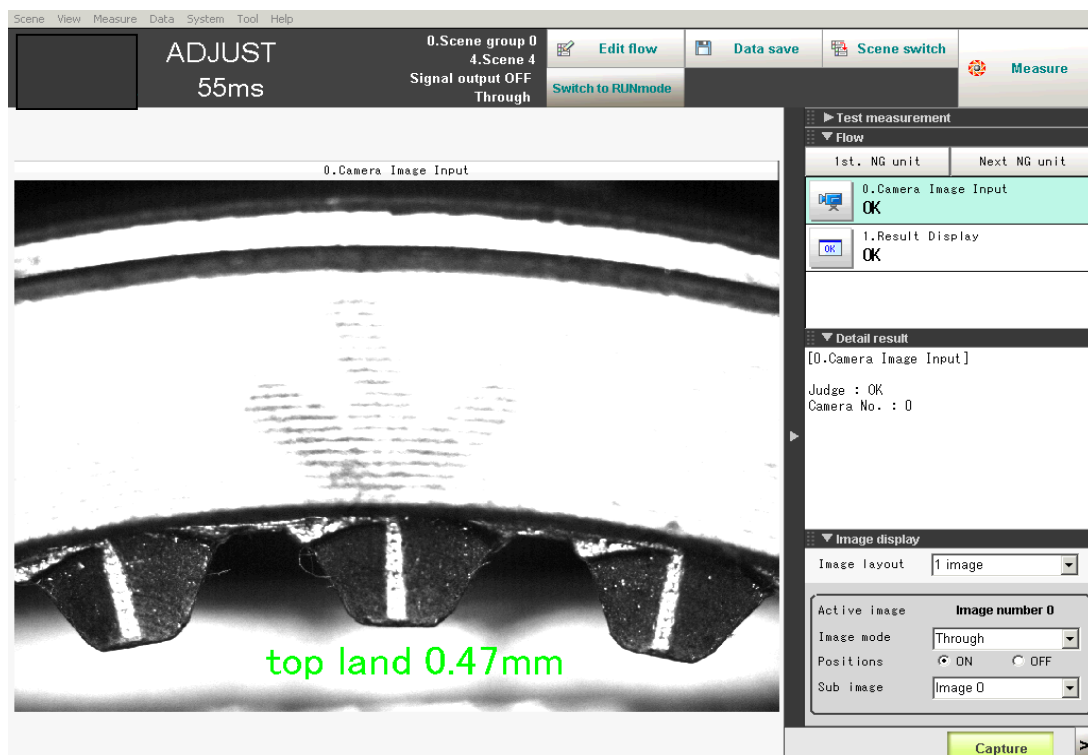


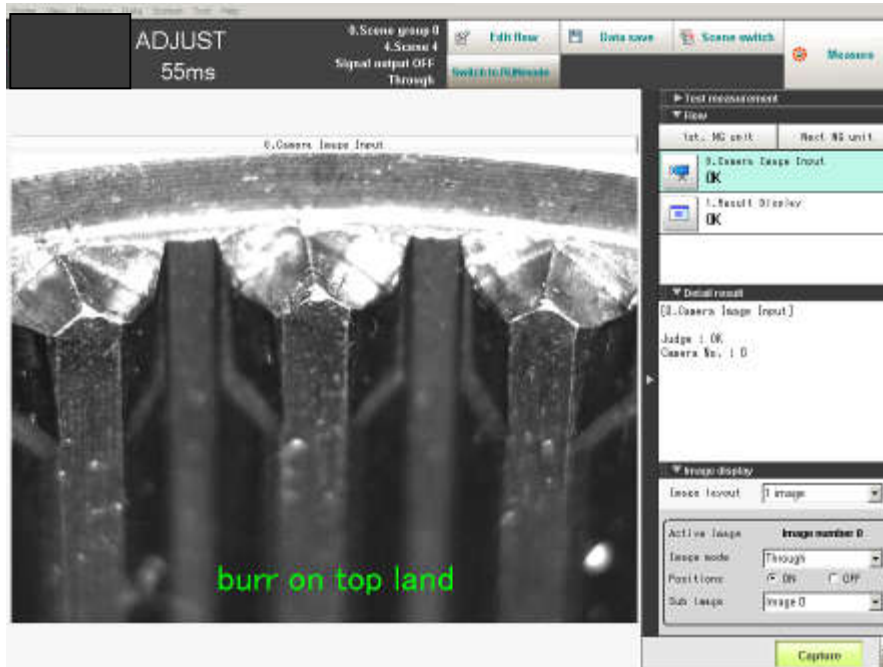
BURR ON BROUCHING PRESENT IN THE COUNTER



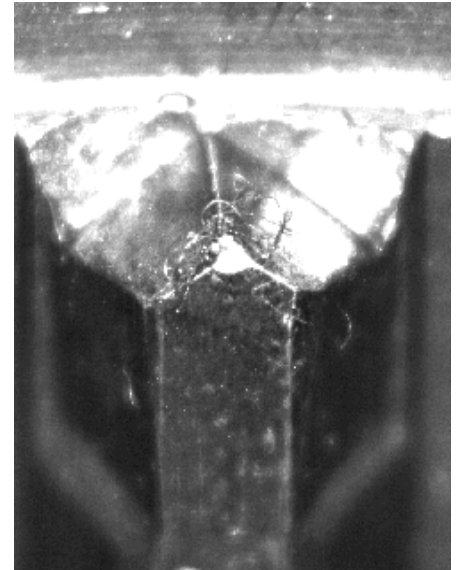


TOP LAND 0.47mm

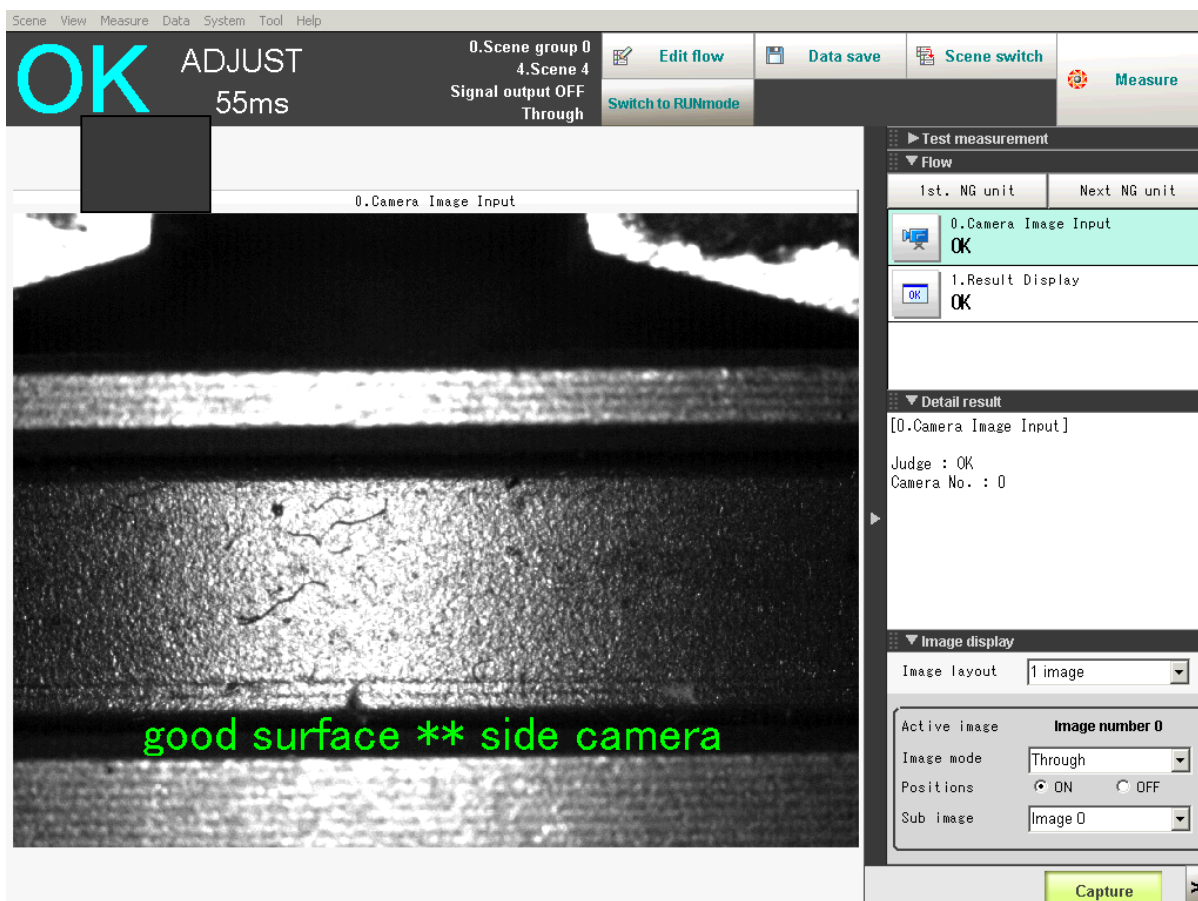


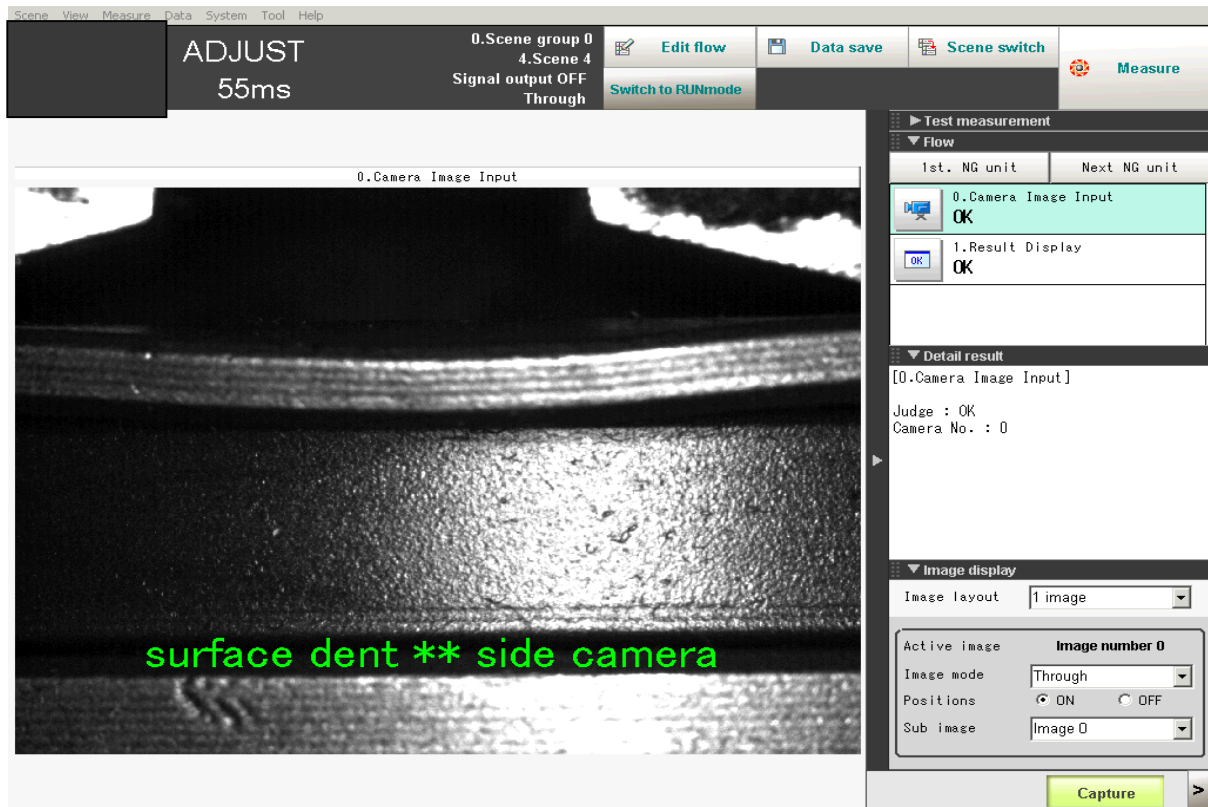


CLOSE VIEW

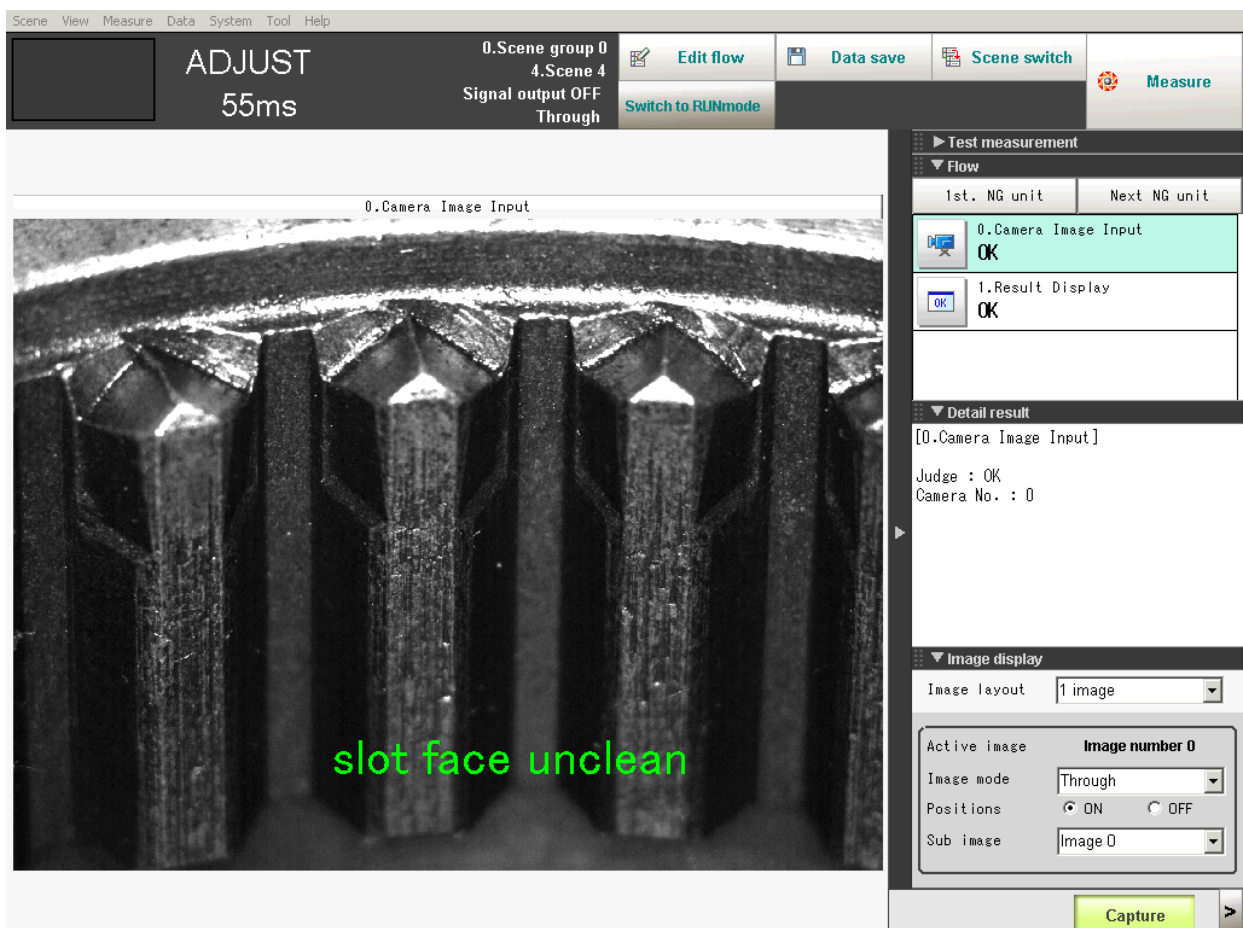


12. NATURE OF SURFACE WITH SIDE CAMERA

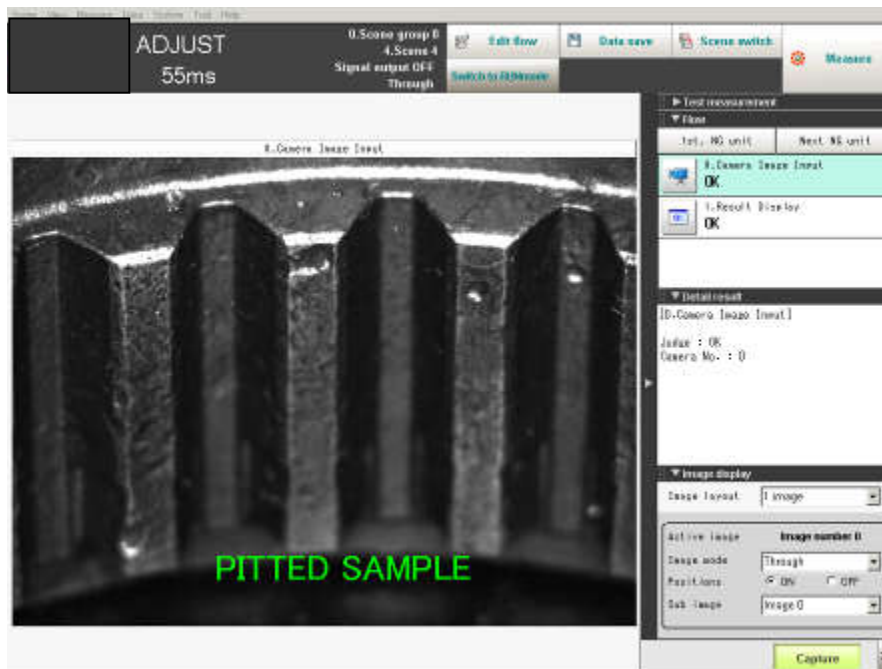




13. BURR ON SLOT FACE



14. SLEEVE PITTED ALL OVER THE INTERNAL AREA



CLOSE VIEW



CONCLUSION:

The VISION System used here is able to identify the required defects on SYNCHRONOUS SLEEVE samples with a desired precision.

Why Us

TIVS is driven by the core values of service, integrity, and innovation. Our strength lies in our agility to adapt to a dynamic market, and our ability to transform challenges into successful market opportunities.

Our capabilities target winning results by understanding your technology needs aligned to your business objectives. Our differentiator is in servicing our clients to make them win; when you talk to us, you will understand our technologists possess significant insight into your business processes, much better than many other service providers.

We are renowned for our ability to provide products, solutions and implementation frameworks that are delivered through a strong focus on core business issues, strong process orientation and industry domain knowledge. We partner with our clients and implement solutions to successful completion, and ensure that they realize the desired business benefits.

We consistently focus on:

- * Reducing the Total Cost of Ownership (TCO) for our customers
- * Understanding customer needs before making recommendations
- * Offering solutions based on specific customer needs
- * Creating an organization based on learning, innovation, and quality
- * Enabling employees to realize their full potential
- * Conducting ourselves with the highest sense of integrity

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