



DTI INSPECTION

**DTI**

**NDT INSPECTION SERVICES**



# OUR SERVICES

## NDT

- NDT PERSONNEL TRAINING & CERTIFICATION
- NDT CONVENTIONAL & ADVANCED INSPECTION
- NDT LEVEL III CONSULTANT

## DT

- HEAT TREATMENT
- POSITIVE MATERIAL IDENTIFICATION
- DESTRUCTIVE TESTING

## CA

- CALIBRATION

# Our Team Layout



**Ahmed Zaid Alhmod**  
General Manager

**Ayman E. Almarhoon**  
NDT Level III manager

# Fulfilment



# (DTI )Detection & Inspection for NDT Services



## Mission

- To exceed our customers expectations in NDT inspection and Quality manner and reduce risk of time.
- To provide customers the highest standard of quality and integrity



## Vision

To be one of the leading NDT Inspection the Middle East.

# Policy

“We are committed to provide safe and reliable NDT Inspection of Components ,part for Oil &Gas and aviation section and exceed customer expectations and satisfaction .



DTI reviews objectives and continually improve the effectiveness of the Quality Management System ”

# (DTI )Detection & Inspection for NDT Services



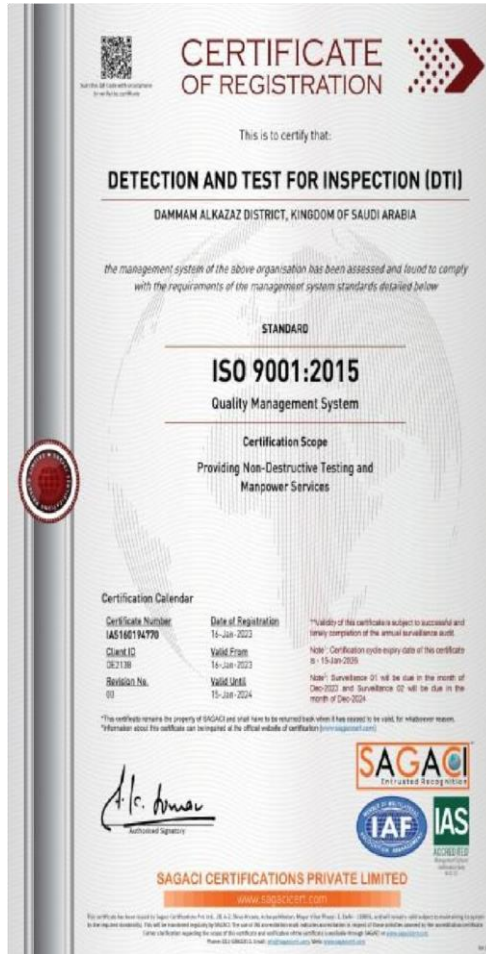
Quality Management System



ISO 9001:2015

# ISO 9001:2015

DTI has implemented Quality System and Gain an ISO 9001:2015 Certificate



## QMS Implementation

Implementing a quality management system affects every aspect of an organization's performance.

- Benefits of a documented quality management system include:
- Meeting the customer's requirements
- Meeting the organization's requirements, which ensures compliance with regulations and provision of products and services in the most cost- and resource-efficient manner,
- creating room for expansion, growth, and Profit.

These benefits offer additional advantages, including:

- ✓ Defining, improving, and controlling processes
- ✓ Reducing waste
- ✓ Preventing mistakes
- ✓ Lowering costs
- ✓ Facilitating and identifying training opportunities
- ✓ Engaging staff
- ✓ Setting organization-wide direction



SERVICES

# DTI (Detection & Inspection for NDT Services )

## ❖ NDT Services

- Visible & Fluorescent Penetrant Test
- Magnetic Particles Testing
- Ultrasonic and Thickness Measurement .
- Electro-magnetic testing.
- Thermographic testing.
- Composite Test
- Phased Array & TOFD Testing.
- PWHT(post/pre-weld Heat Treatment)

## ❖ Destructive Testing

- Hardness Test

# DTI (Detection & Inspection for NDT Services )

## Calibration

### ➤ Temperature

- ✓ Digital thermometers
- ✓ Glass thermometers
- ✓ Temperature indicators
- ✓ Thermocouples
- ✓ Muffle furnaces
- ✓ Temperature sensors (RTD)
- ✓ Asphalt content testers
- ✓ Drying ovens
- ✓ Incubators
- ✓ Freezers
- ✓ Refrigerators
- ✓ Liquid baths
- ✓ Thermo-hygrometer
- ✓ Infrared thermometer
- ✓ welding machine & PWHT machine

### ➤ Electrical

- ✓ Analog/digital multi-meter (v/a/ohm)
- ✓ Voltmeter

### ➤ Pressure

- ✓ Pressure gauges
- ✓ Absolute pressure gauge
- ✓ Vacuum gauges
- ✓ Pressure transducer
- ✓ Pressure calibrator
- ✓ Pressure balance (dead weight tester)
- ✓ Differential pressure gauge
- ✓ Pressure Switches
- ✓ Pressure Transmitters

### ➤ Dimension

- ✓ Gauge blocks
- ✓ Precision calipers
- ✓ Micrometers

### ➤ Mass

- ✓ Precision weights
- ✓ Ordinary weights
- ✓ Electronic balances
- ✓ Industrial / Mechanical balances

# DTI (Detection & Inspection for NDT Services )

## Calibration

- **Force & Torque**
  - ✓ Torque tester
  - ✓ Torque Wrenches
- **Valves**
  - ✓ Pressure Safety Valves
  - ✓ Pressure Relief Valves
- **Gas Detectors**
  - ✓ H2S Detector
  - ✓ Flame Detector
  - ✓ IR Detector
  - ✓ CO Detector
  - ✓ Fixed gas detectors
- **Drilling Rigs Instrumentation**
  - ✓ Weight indicator
  - ✓ Tong Torque pressure gauges
  - ✓ SPM gauges
  - ✓ RPM gauges
  - ✓ BOP hydro-testing
  - ✓ Safety valves
  - ✓ Mud pump pressure gauges
  - ✓ Mud hose hydro-testing
  - ✓ Pressure chart recorders
- **NDT Equipment**
  - ✓ Magnetic Yoke
  - ✓ Weight Lift test bar
  - ✓ Gauss meter
  - ✓ Lux meter
  - ✓ Light meter
  - ✓ Eddy
  - ✓ Ferret machine
  - ✓ PMI machine
  - ✓ HT (TELEBRINELLER MICROSCOPE & DIGITAL)
  - ✓ Ultra sonic machine
  - ✓ PAUT



# NDT Services

# Penetrant Testing

Quality



**Black light**

Cost

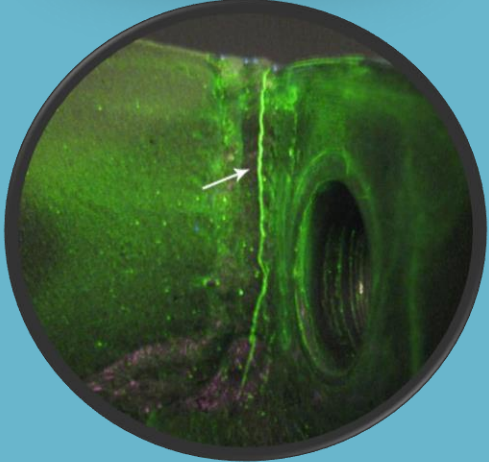
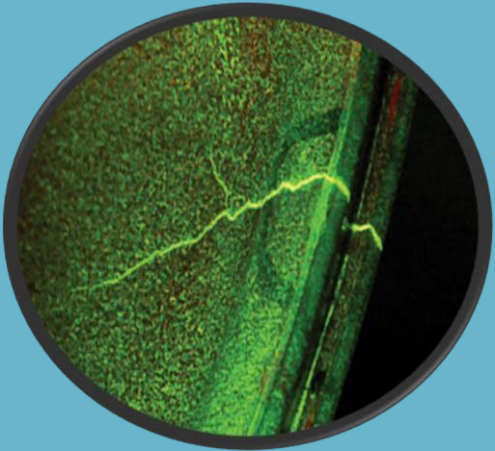
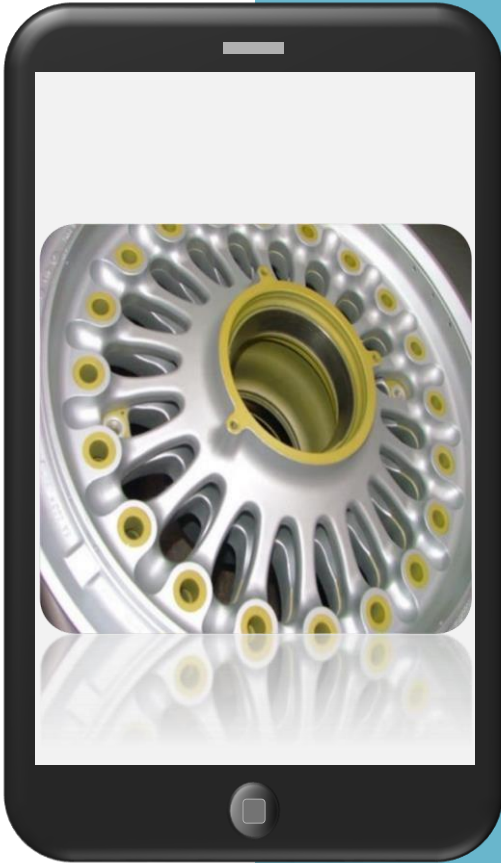


**UV light meter**



**Penetrant Chemicals**

# Penetrant Testing

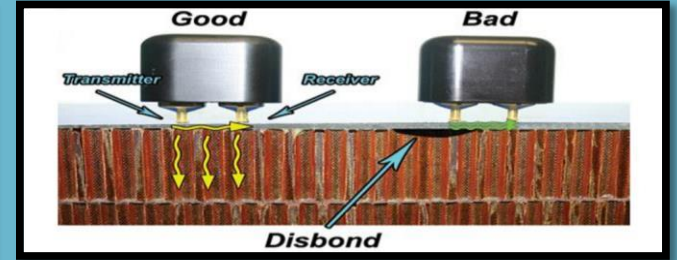


# Ultrasonic Testing

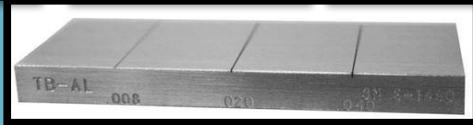
High Technology Ultrasonic Testing Machines are used.



# Ultrasonic Testing

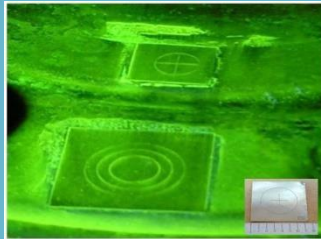


# Electromagnetic Testing

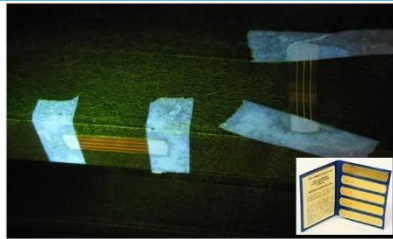


# Magnetic particles inspection

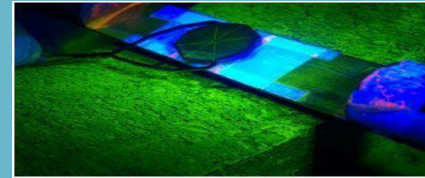
Magnetic Yoke Machines for Inspection of Surface and near Surface Discontinuity are used.



Notched Shim (also called quantitative quality indicator, or QQI)



Laminated Strip (also called Burmah-Castrol strip, or Castrol strip)



# Visual Inspection Boroscope

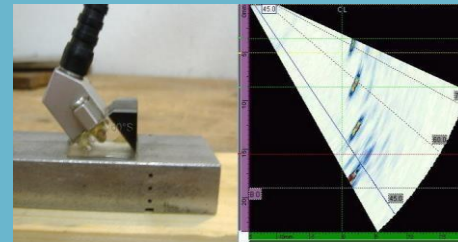
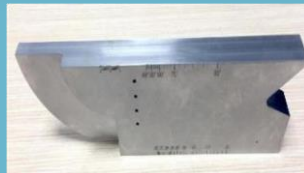
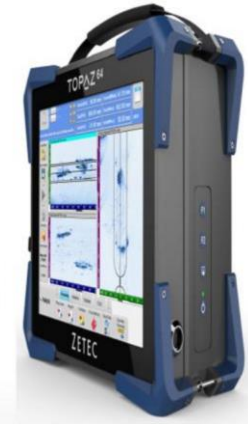


# PHASED ARRAY ADVANCE ULTRASONIC

TOPAZ 32 PAUT Machines for Inspection of internal, corrosion mapping and heat affected area example of inspected area landing gear bearing, wing spar ,rudder ...etc. are used

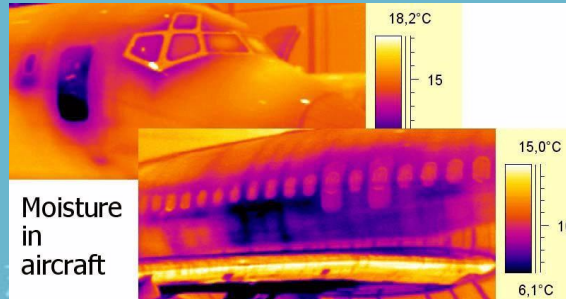
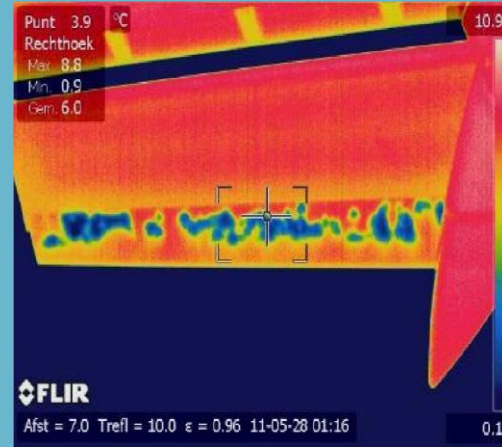


FMC (Full Matrix Capture) &  
TFM (Total Focusing Method)



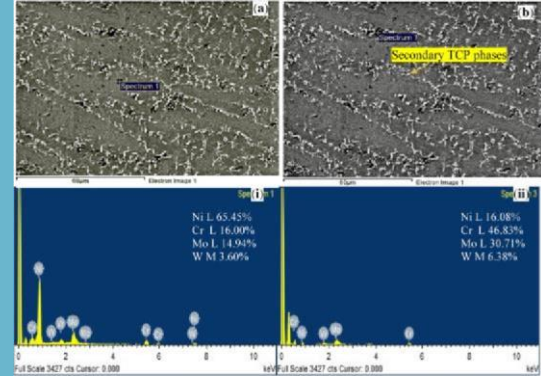
# Infrared Testing

Infrared Machines for Inspection of Trapped water in honey comb composite and heat affected area such as rudder area, are used



# Heat Treatment

Portable Heat Treatment Machine for Pre-weld and Post weld of Material are used.



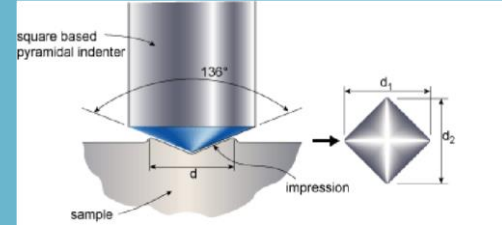
# Material Identification

Material Identification Such as XRF,OES are used.



# Hardness Testing

Eco Tip Rockwell Hardness Tester Used for Inspection of material hardness are used.



# Approval

- Aramco Vendor Number 10110366
- Sabic SLM under registration

Commercial  
Commercial

# Contact

Ahmed Zaid bin Abdulla office for Consultation and laboratories (DTI)

For any Inquires Feel free To Contact us at any time we will be happy to Support You.

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Thank you