ALsoco SOftware COmpany SRL
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Mail: alex@alsoco.com

NDE APPLICATION (Non-Destructive Examination)
Brief Overview

Purpose: Management of NDE reports.

The following types of reports can be created:

1. ULTRASONIC EXAMINATION REPORT
2. VISUAL EXAMINATION AND LIQUID PENETRANT TESTING REPORT
3. VISUAL EXAMINATION AND MAGNETIC PARTICLE TESTING REPORT
4. IMMERSION ULTRASONIC EXAMINATION REPORT

Application features:

- Reports are issued at plant level.
- Default values can be defined for fields.
- Access is authorised by report type.
- Auditing covers creation and the most recent save.
- Multiuser operation with locking while a report is being edited.
- Reports can be closed and locked against editing, with unlocking available only to a supervisor with special access.
- A report can be sent by email only after it has been closed.
- Unstructured documents can be attached to each report: images, PDFs, and other files.
- Backward compatibility is maintained for reports: if a certificate layout changes, older certificates can still be printed using their original format.
- Handwritten signature support.
- Report analysis: an Excel report extracts data from the database.

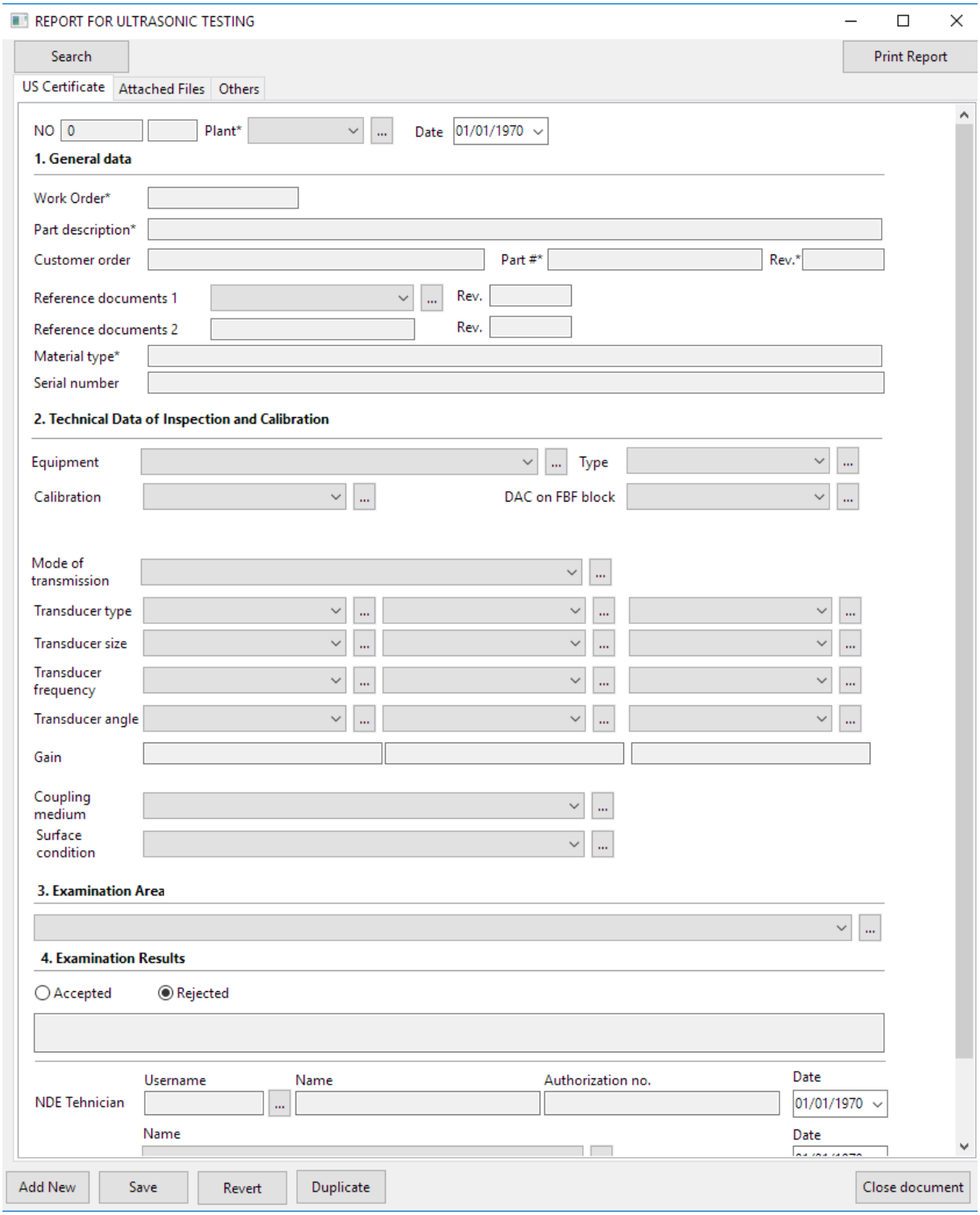
Where possible, the application retrieves data from other information systems, such as orders, products, and serial numbers.

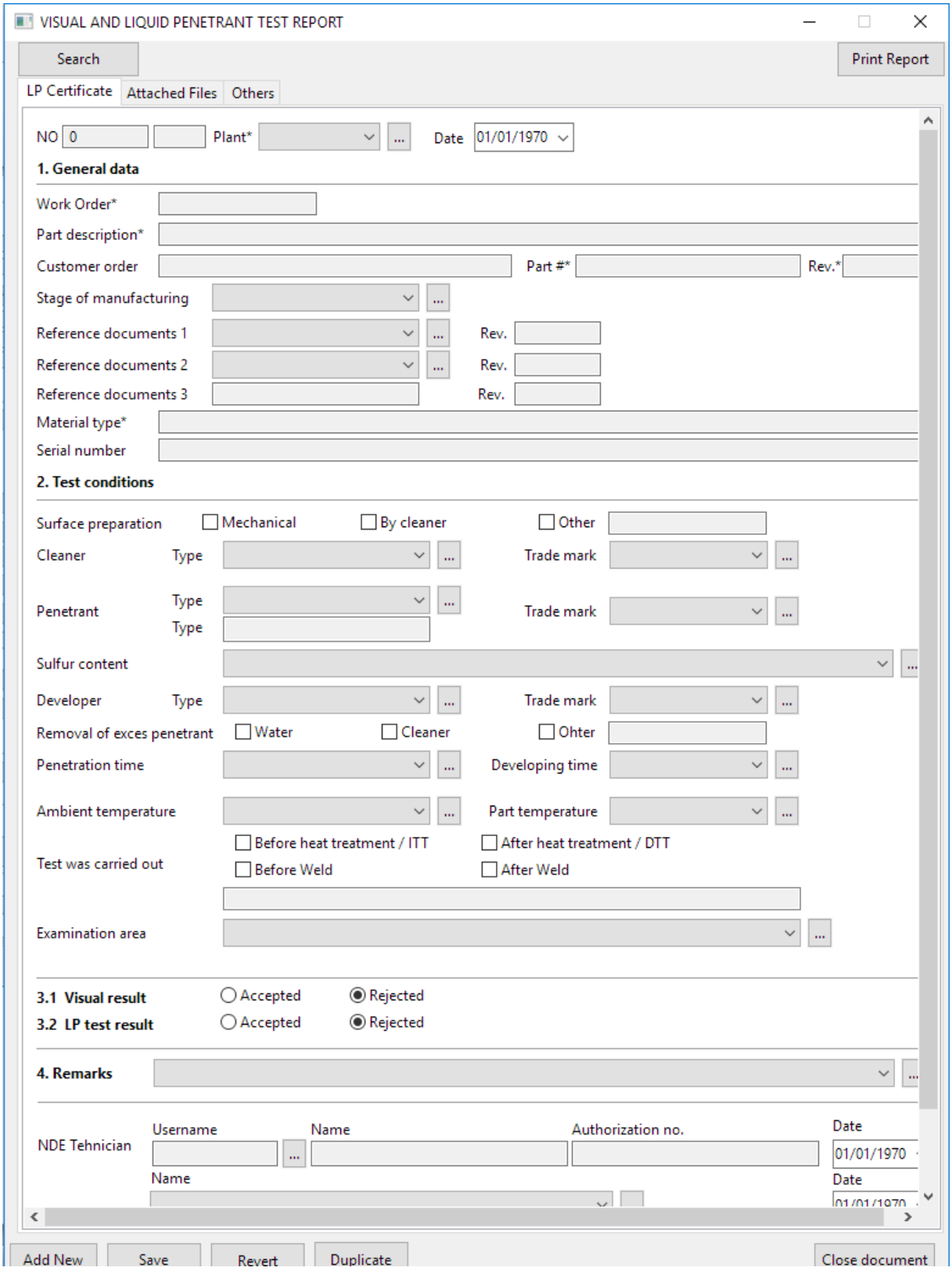
Fields fall into two categories:

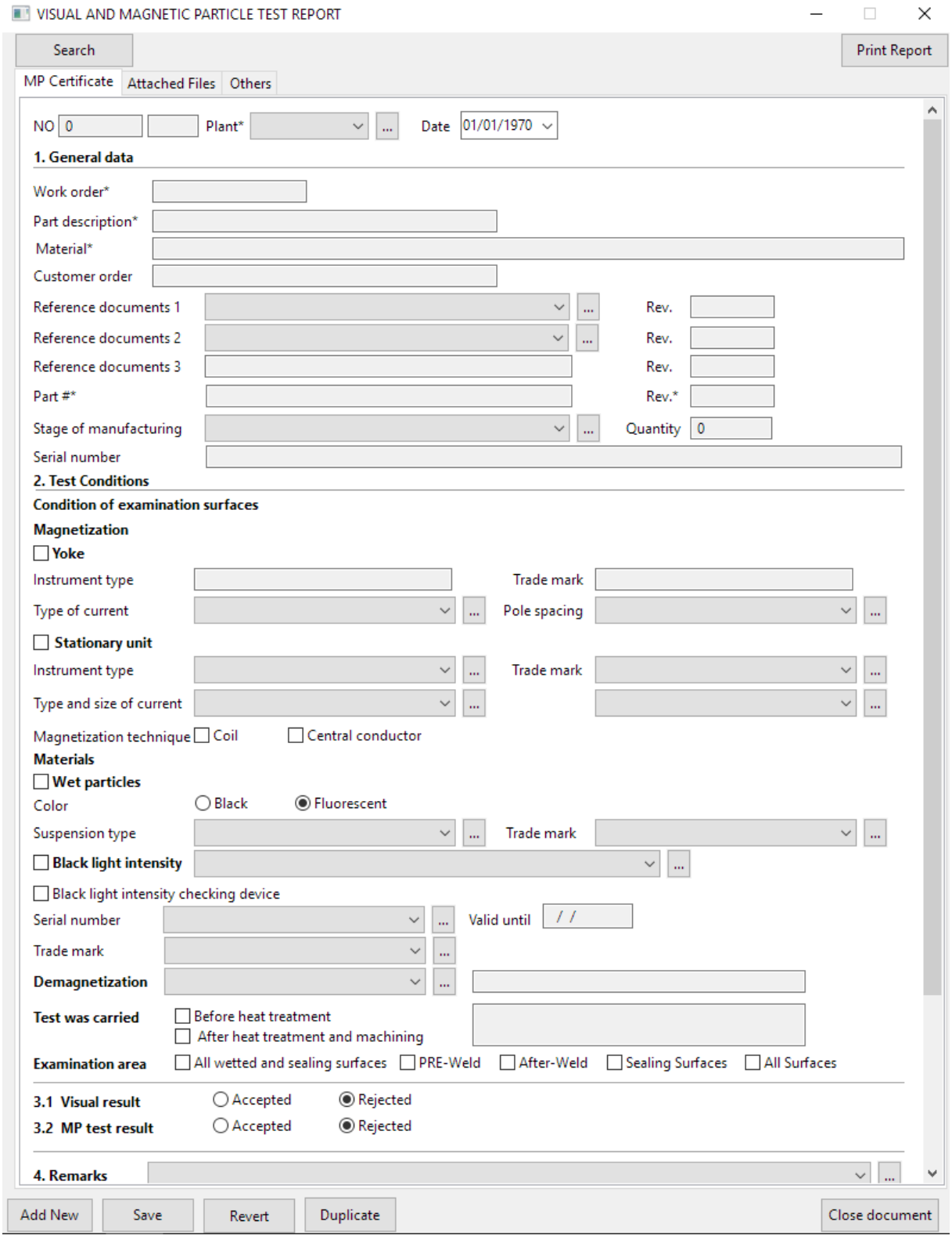
1. Manually entered fields: dates, checkboxes, and text.
2. Lists of predefined values, with options to add, modify, reorder, set a default value, or remove a value from the list.

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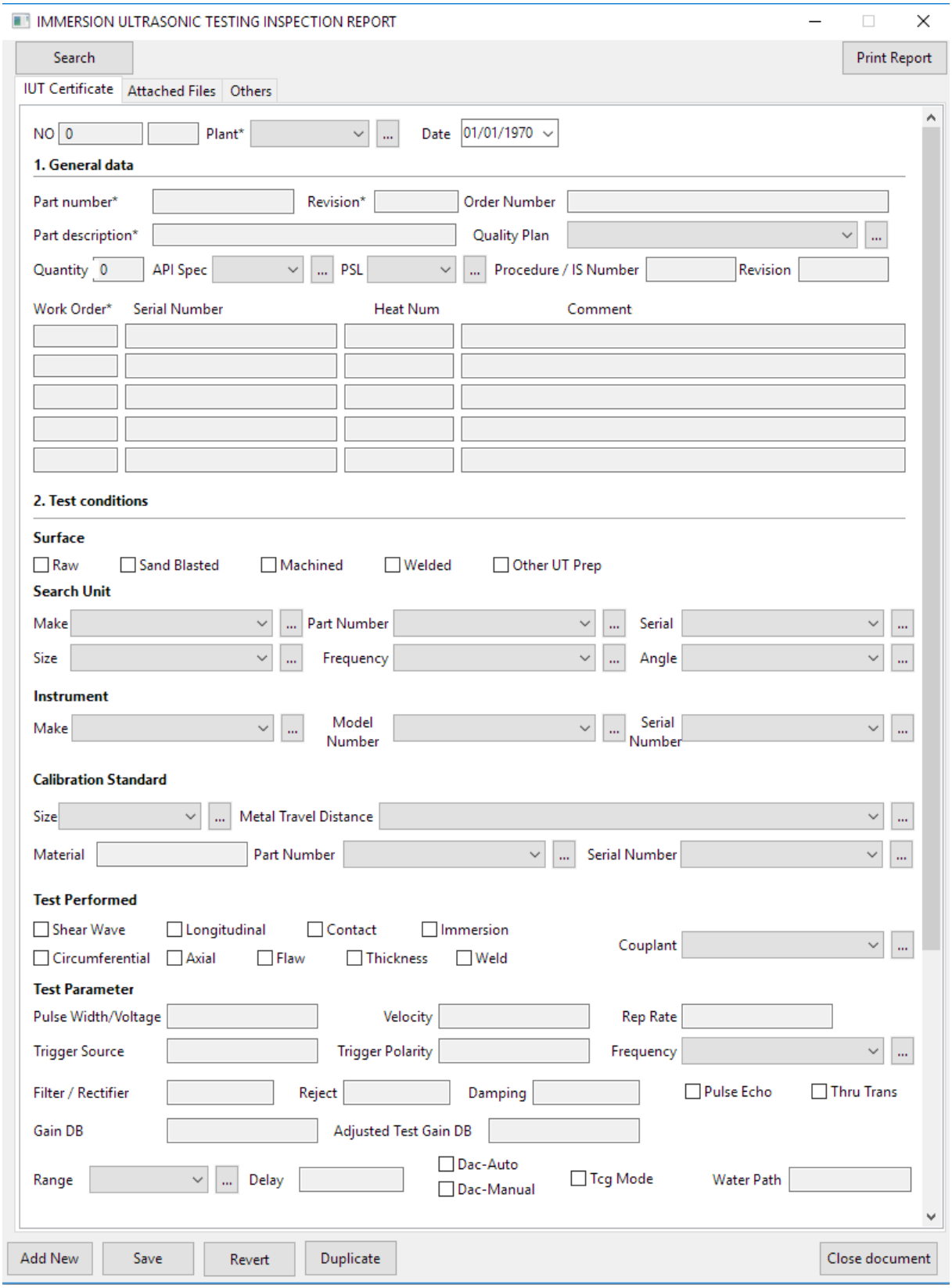
Data Entry Screenshots

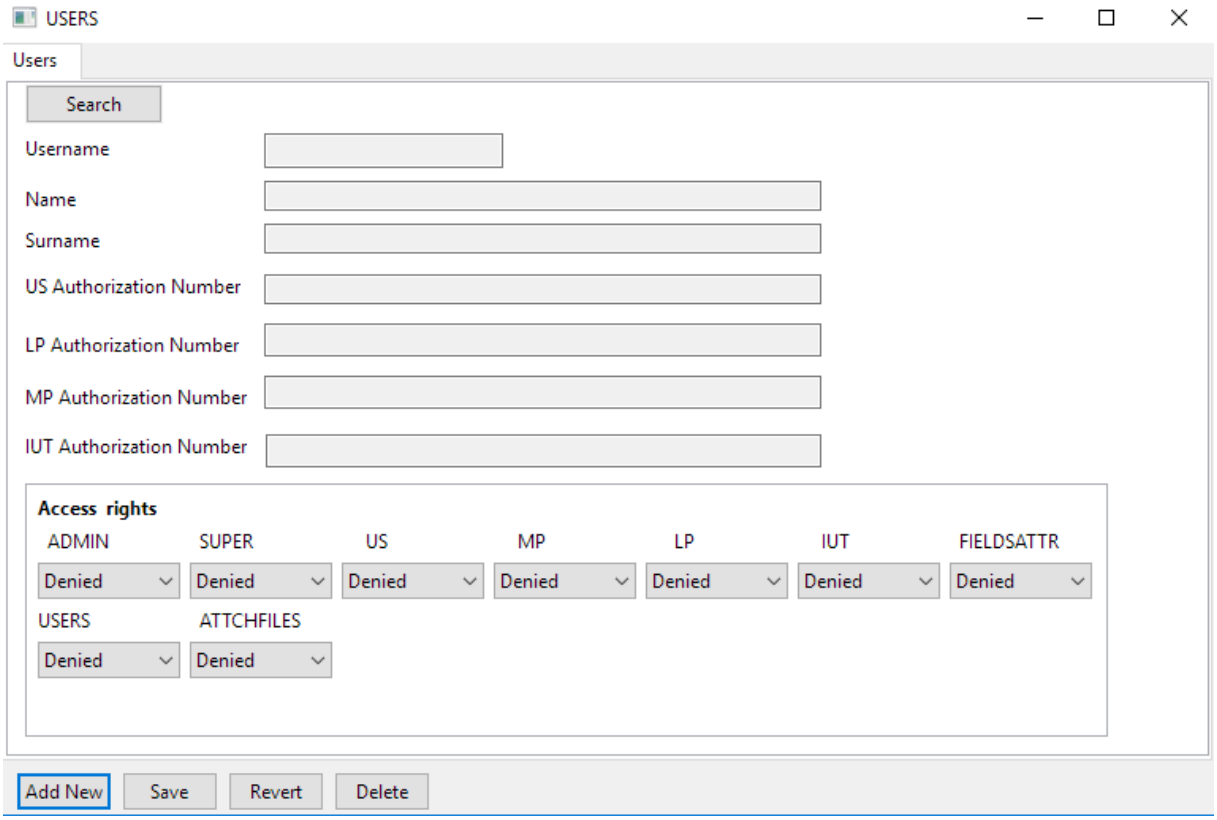



VISUAL AND LIQUID PENETRANT TEST REPORT
Search
Print Report
LP Certificate
Attached Files
Others
NO
Plant*
Date
01/01/1970
1. General data
Work Order*
Part description*
Customer order
Part #*
Rev.*
Stage of manufacturing
Reference documents 1
Reference documents 2
Reference documents 3
Rev.
Material type*
Serial number
2. Test conditions
Surface preparation
Mechanical
By cleaner
Other
Cleaner
Type
Trade mark
Penetrant
Sulfur content
Developer
Removal of exces penetrant
Water
Cleaner
Ohter
Penetration time
Developing time
Ambient temperature
Part temperature
Test was carried out
Before heat treatment / ITT
After heat treatment / DTT
Before Weld
After Weld
Examination area
3.1 Visual result
3.2 LP test result
Accepted
Rejected
4. Remarks
NDE Tehnician
Username
Name
Authorization no.
Date
Add New
Save
Revert
Duplicate
Close document


VISUAL AND MAGNETIC PARTICLE TEST REPORT
Search
Print Report
MP Certificate
Attached Files
Others
NO 0
Plant*
Date 01/01/1970
1. General data
Work order*
Part description*
Material*
Customer order
Reference documents 1
Rev.
Reference documents 2
Rev.
Reference documents 3
Rev.
Part #*
Rev.*
Stage of manufacturing
Quantity 0
Serial number
2. Test Conditions
Condition of examination surfaces
Magnetization
Yoke
Instrument type
Trade mark
Type of current
Pole spacing
Stationary unit
Instrument type
Trade mark
Type and size of current
Magnetization technique Coil Central conductor
Materials
Wet particles
Color Black Fluorescent
Suspension type
Trade mark
Black light intensity
Black light intensity checking device
Serial number
Valid until / /
Trade mark
Demagnetization
Test was carried Before heat treatment
After heat treatment and machining
Examination area All wetted and sealing surfaces PRE-Weld After-Weld Sealing Surfaces All Surfaces
3.1 Visual result Accepted Rejected
3.2 MP test result Accepted Rejected
4. Remarks
Add New
Save
Revert
Duplicate
Close document

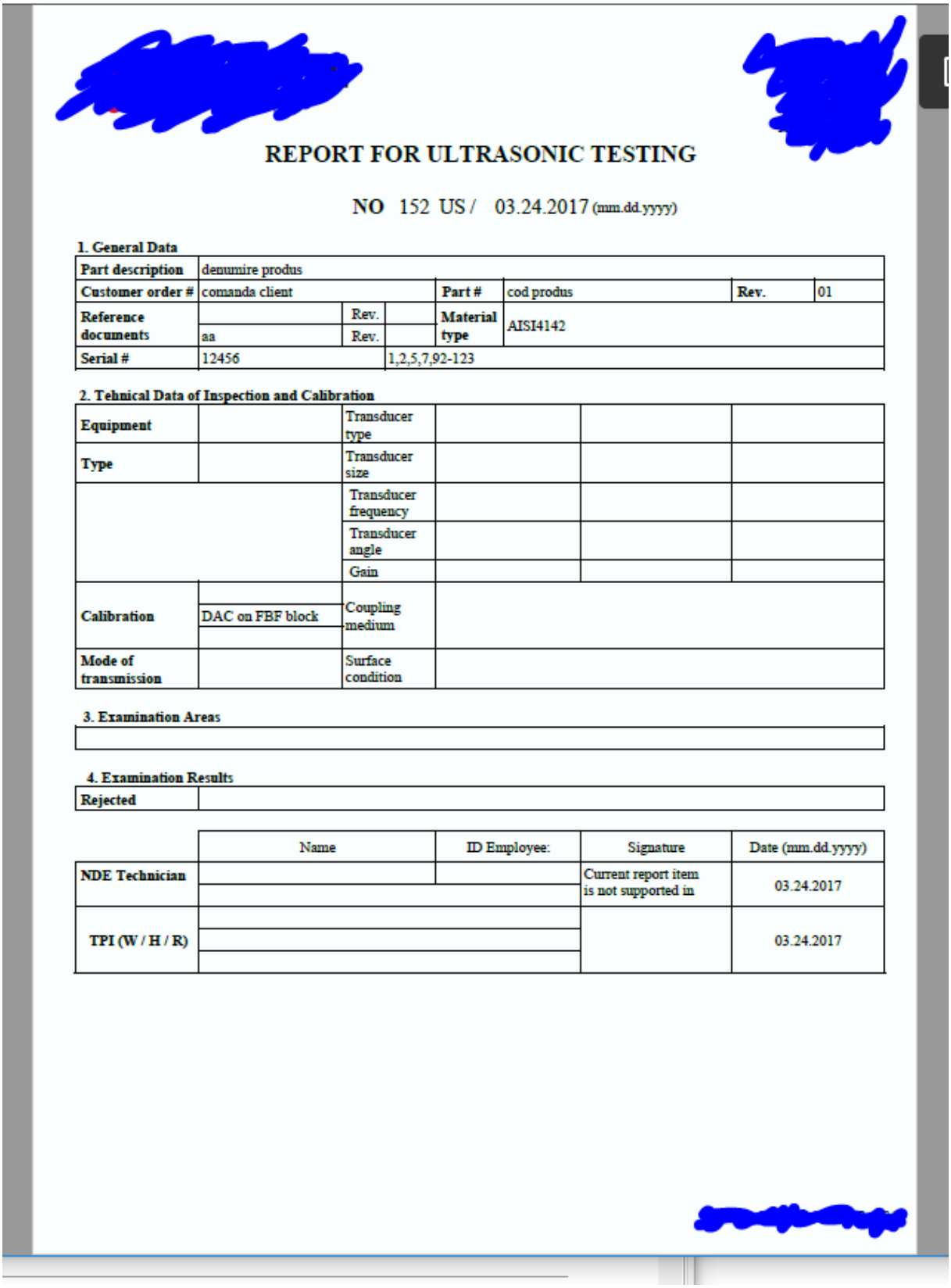
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USERS
Users
Search
Username
Name
Surname
US Authorization Number
LP Authorization Number
MP Authorization Number
IUT Authorization Number
Access rights
ADMIN
SUPER
US
MP
LP
IUT
FIELDSATTR
Denied
Denied
Denied
Denied
Denied
Denied
Denied
USERS
ATTCHFILES
Denied
Denied
Add New
Save
Revert
Delete

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Certificate Examples



[redacted]

[redacted]

REPORT FOR ULTRASONIC TESTING

NO 152 US / 03.24.2017 (mm.dd.yyyy)

1. General Data

Part description	denumire produs						
Customer order #	comanda client			**Part #**	cod produs	**Rev.**	01
Reference documents		Rev.		**Material type**	AISI4142		
	aa	Rev.					
Serial #	12456	1,2,5,7,92-123					

2. Tehnical Data of Inspection and Calibration

Equipment		Transducer type			
Type		Transducer size			
		Transducer frequency			
		Transducer angle			
		Gain			
Calibration	DAC on FBF block	Coupling medium			
Mode of transmission		Surface condition			

3. Examination Areas

4. Examination Results

Rejected	

	Name	ID Employee:	Signature	Date (mm.dd.yyyy)
NDE Technician			Current report item is not supported in	03.24.2017
TPI (W / H / R)				03.24.2017

[redacted]





VISUAL AND LIQUID PENETRANT TEST REPORT

NO 4 LP / 03.24.2017 (mm.dd.yyyy)

1. General Data

Part description	denumire produs				Customer order #	comanda client
Part #	cod produs		Rev.	01	Stage of manufacturing	
Reference documents		Rev.		Material type	AISI4130	
		Rev.				
		Rev.				
Serial number	12458					

2. Test conditions

Surface preparation	☐ Mechanical	☐ By cleaner	☐ Other		
Cleaner	Type			Trade mark	
Penetrant	Type			Trade mark	
Sulfur content					
Developer	Type			Trade mark	
Removal of exces penetrant	☐ Water	☐ Cleaner	☐ Other		
Penetration time				Developing time	
Ambient temperature				Part temperature	
Test was carried out	☐ Before heat treatment	☐ After heat treatment			
	☐ Before Weld	☐ After Weld			
Examination area					

3.1 Visual result **Rejected**
3.2 LP test result **Rejected**

4. Remarks

	Name	ID Employee	Signature	Date(mm.dd.yyyy)
NDE Technician			Current report item is not supported in	03.24.2017
TPI (W / H / R)				03.24.2017

Form code

VISUAL AND MAGNETIC PARTICLE TEST REPORT

NO 10 / 03.24.2017 (mm.dd.yyyy)

1. General Data

Part description	denumire produs			**Material**	AISI4143		
Customer order #				**Reference documents**		Rev.	
						Rev.	
						Rev.	
Part Number #	cod produs	Rev.	02	**Stage of manufacturing**			
Quantity	0						
Serial #	1212						

2. Test conditions

Condition of examination surfaces

Magnetization	[x] **Yoke**		[x] **Stationary unit**	
	Instrument type		Instrument type	
	Trade mark		Trade mark	
	Type of current		Type and size of current:	
	Pole spacing		Magnetization technique	[ ] Coil [ ] Central conductor
Materials	[ ] **Wet particles**		[ ] **Black light intensity**	
	Color	Fluorescent	[ ] Black light intensity checking device	Serial number
				Valid until (mm.dd.yyyy) 02.01.1970
	Suspension type		Field adequacy verified by field strength indicator ASME Sect. 5	
	Trade mark		Trade mark	
Demagnetization				
Test was carried	[ ] Before heat treatment [ ] After heat treatment and machining			
Examinations areas	[ ] All wetted and sealing surfaces [ ] PRE-Weld [ ] After-Weld [ ] Sealing Surfaces [ ] All Surfaces			

3.1 Visual result Rejected

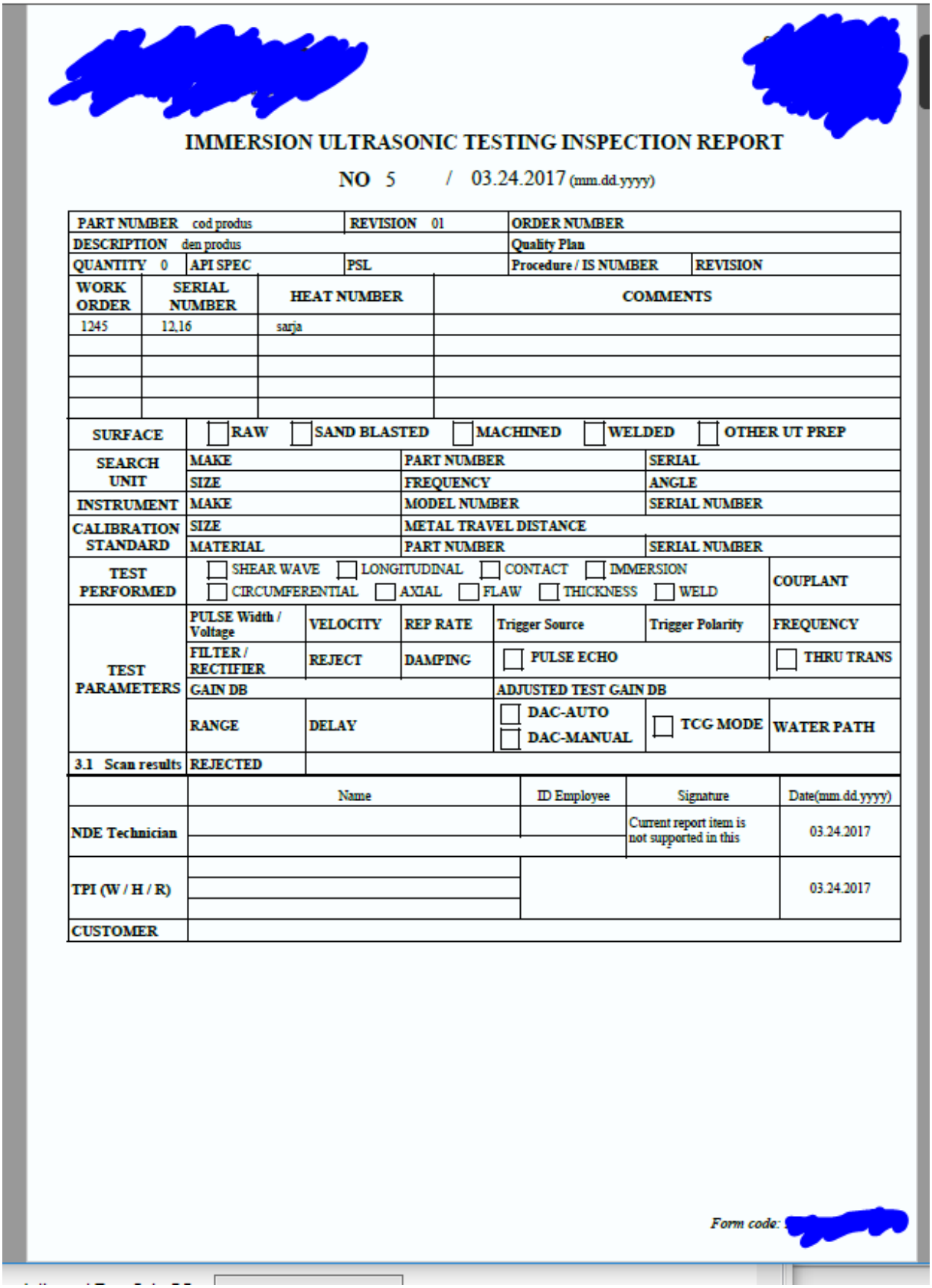
3.2 PM test result Rejected

4. Remarks

	Name	ID Employee	Signature	Date(mm.dd.yyyy)
NDE Technician			Current report item is not supported in	03.24.2017
TPI (W / H / R)				03.24.2017

Form code

◉ Rejected



[redacted]

[redacted]

IMMERSION ULTRASONIC TESTING INSPECTION REPORT

NO 5 / 03.24.2017 (mm.dd.yyyy)

PART NUMBER cod produs		REVISION 01		ORDER NUMBER	
DESCRIPTION den produs				Quality Plan	
QUANTITY 0	API SPEC	PSL		Procedure / IS NUMBER	REVISION

WORK ORDER	SERIAL NUMBER	HEAT NUMBER	COMMENTS
1245	12,16	sarja	

SURFACE	☐ RAW	☐ SAND BLASTED	☐ MACHINED	☐ WELDED	☐ OTHER UT PREP
SEARCH UNIT	MAKE		PART NUMBER		SERIAL
	SIZE		FREQUENCY		ANGLE
INSTRUMENT	MAKE		MODEL NUMBER		SERIAL NUMBER
CALIBRATION STANDARD	SIZE		METAL TRAVEL DISTANCE		
	MATERIAL		PART NUMBER		SERIAL NUMBER
TEST PERFORMED	☐ SHEAR WAVE ☐ LONGITUDINAL ☐ CONTACT ☐ IMMERSION ☐ CIRCUMFERENTIAL ☐ AXIAL ☐ FLAW ☐ THICKNESS ☐ WELD				COUPLANT

TEST PARAMETERS	PULSE Width / Voltage	VELOCITY	REP RATE	Trigger Source	Trigger Polarity	FREQUENCY
	FILTER / RECTIFIER	REJECT	DAMPING	☐ PULSE ECHO		☐ THRU TRANS
	GAIN DB			ADJUSTED TEST GAIN DB		
	RANGE	DELAY		☐ DAC-AUTO ☐ DAC-MANUAL	☐ TCG MODE	WATER PATH
3.1 Scan results	REJECTED					

	Name	ID Employee	Signature	Date(mm.dd.yyyy)
NDE Technician			Current report item is not supported in this	03.24.2017
TPI (W / H / R)				03.24.2017
CUSTOMER				

Form code: [redacted]

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Application Stack

