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APLICATIE NDE (Non-Destructive Examination)
scurta prezentare

Scop: Managementul buletinelor NDE.

Se pot crea urmatoaarele tipuri de buletine:

1. BULETIN CONTROL ULTRASONIC
2. BULETIN DE EXAMINARE VIZUALA SI CONTROL CU LICHIDE PENETRANTE
3. BULETIN DE EXAMINARE VIZUALA SI CONTROL CU PARTICULE MAGNETICE
4. BULETIN CONTROL ULTRASONIC IN IMERSIE

Caracteristicile aplicatiei:

- Bultinele vor fi emise la nivel de fabrica
- Se vor putea defini valori implicite pentru campuri
- Accesul va fi autorizat la nivel de tip de buletin
- Auditarea va fi pentru adaugare si ultima salvare
- Multiutilizator cu blocare daca este in editare
- Inchidere si blocare buletine pentru editare cu posibilitatea deblocarii doar de catre supervizor (un acces special)
- Transmitere mail cu buletin doar daca este inchis.
- Atasare documente nestructurate la nivel de buletin: imagiuni, pdf, alte fisiere
- Se va asigura compatibilitataea inapoi pentru buletine – daca forma unui certificat se schimba certificatele vechi vor putea fi listate in vechiul format.
- Implementare semnatura olografa
- Rapoarte buletine – Raport excel care extrage datele din baza de date.

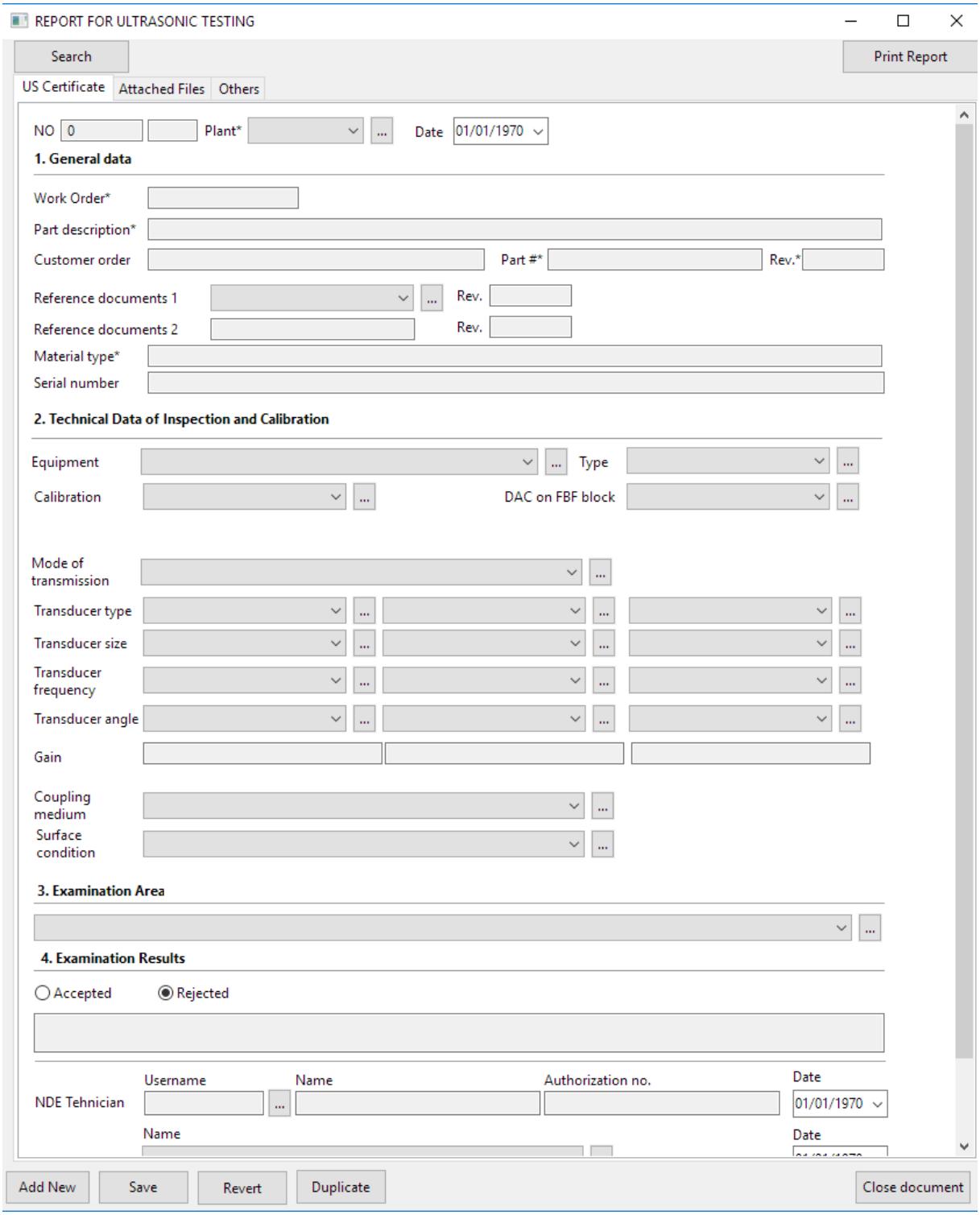
Acolo unde este posibil aplicatia va extrage date din alte sisteme informatice. Ex.: comanda, produs, serii, etc

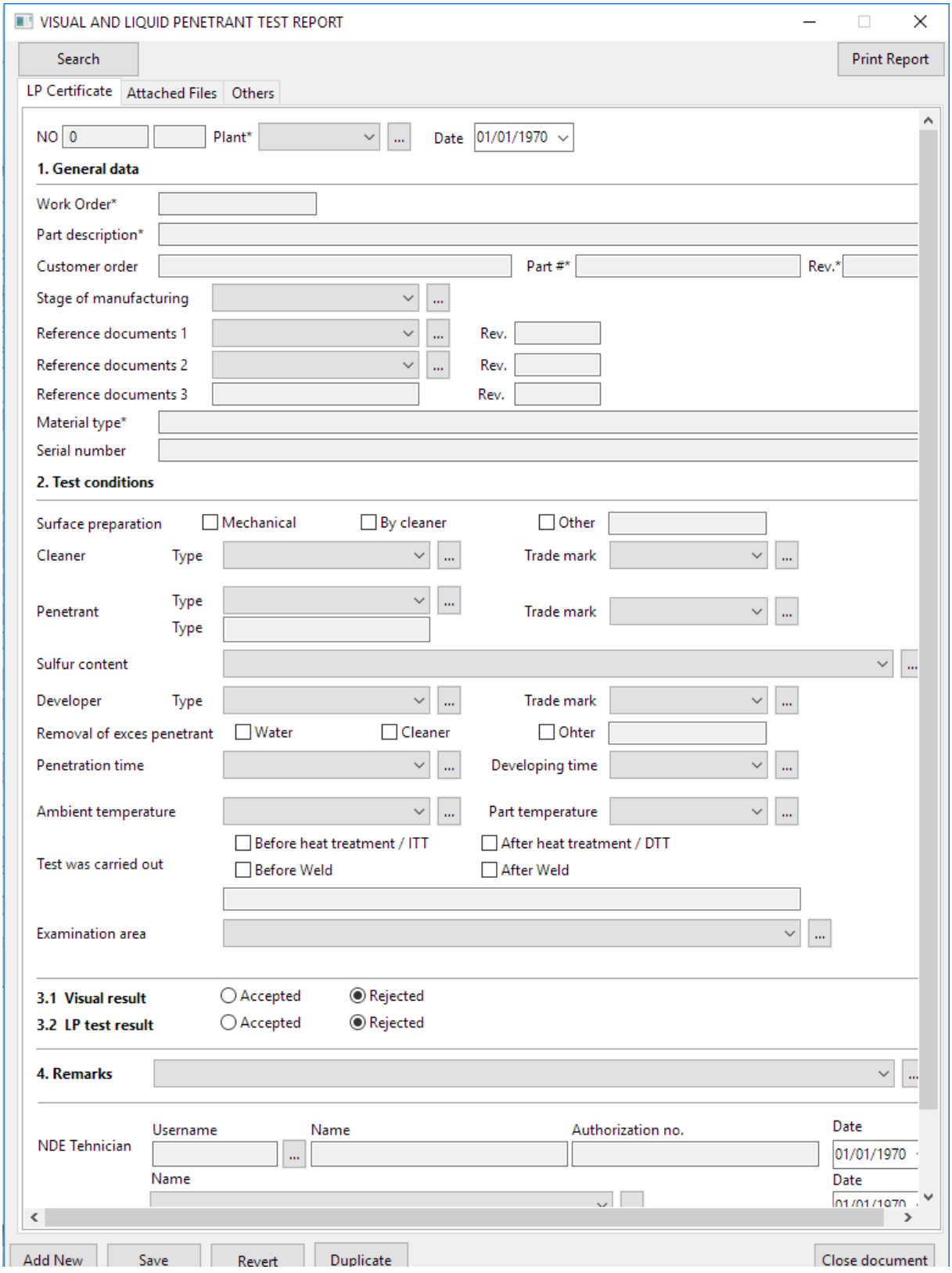
Campurile se impart in doua tipuri:

1. Introduse manual: date, bife, text
2. Liste cu valori predefinite cu posibilitatea de adaugare, modificare, ordonare, setare valoare implicita sau stergere din lista

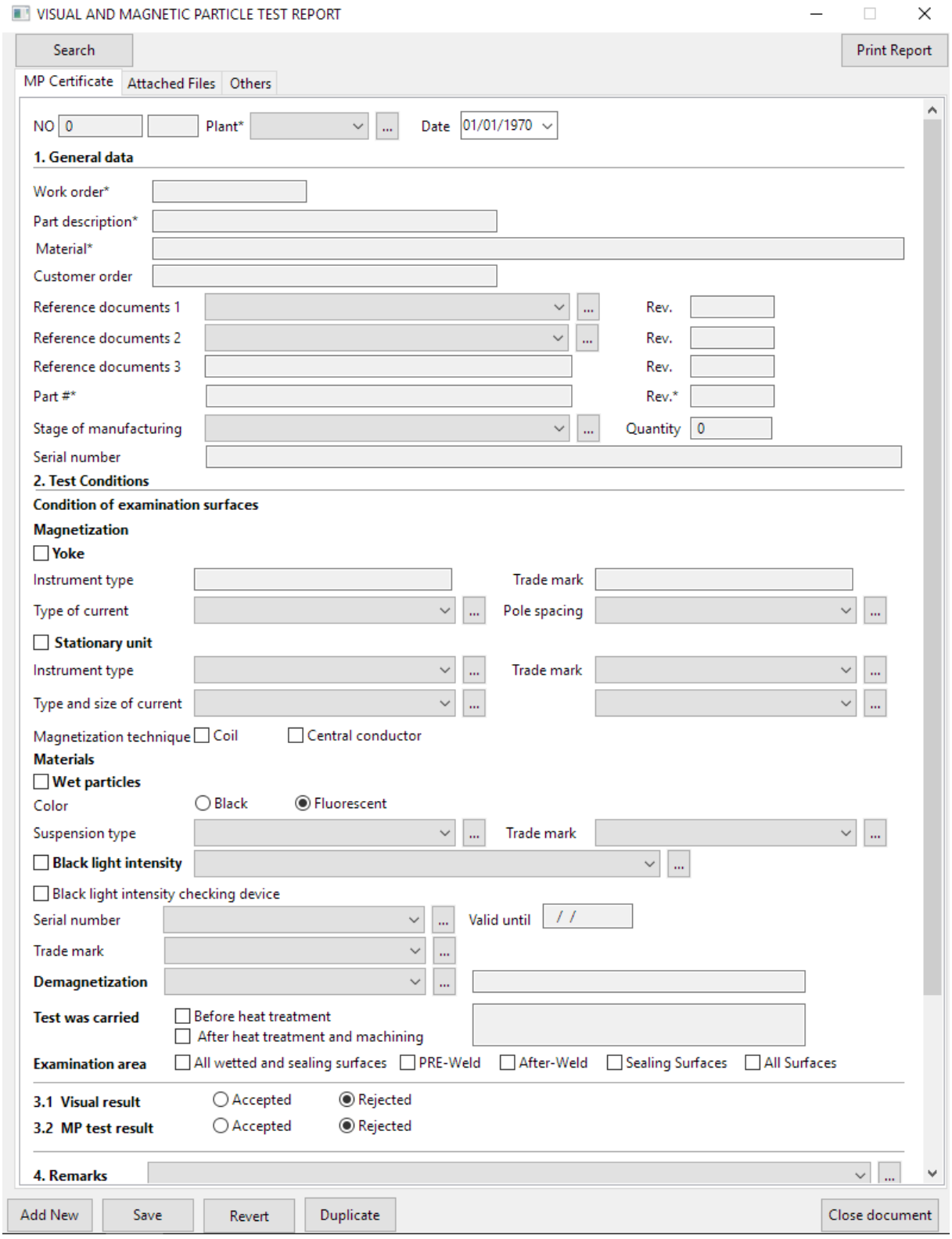
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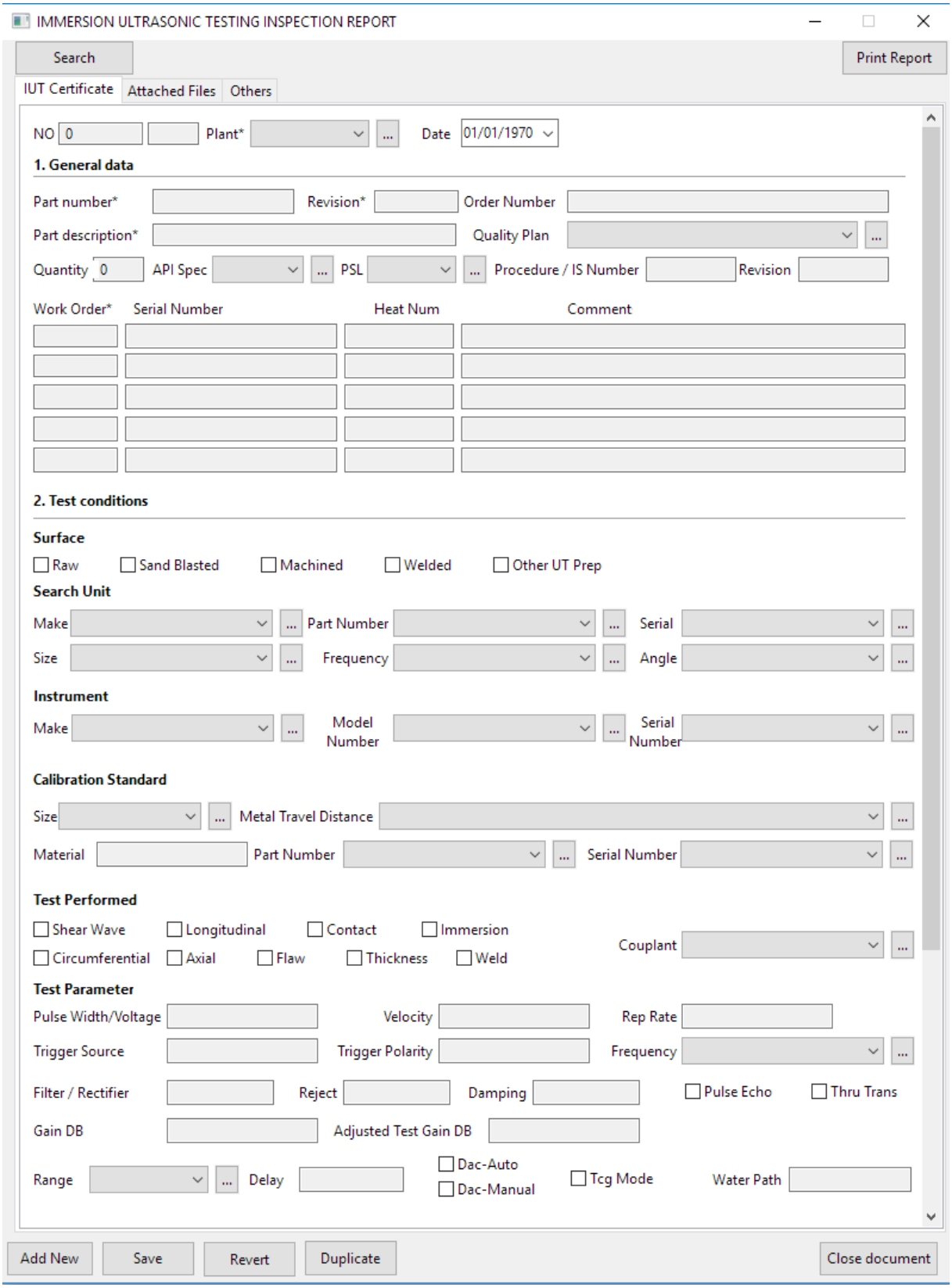
Print Screen-uri introducere date

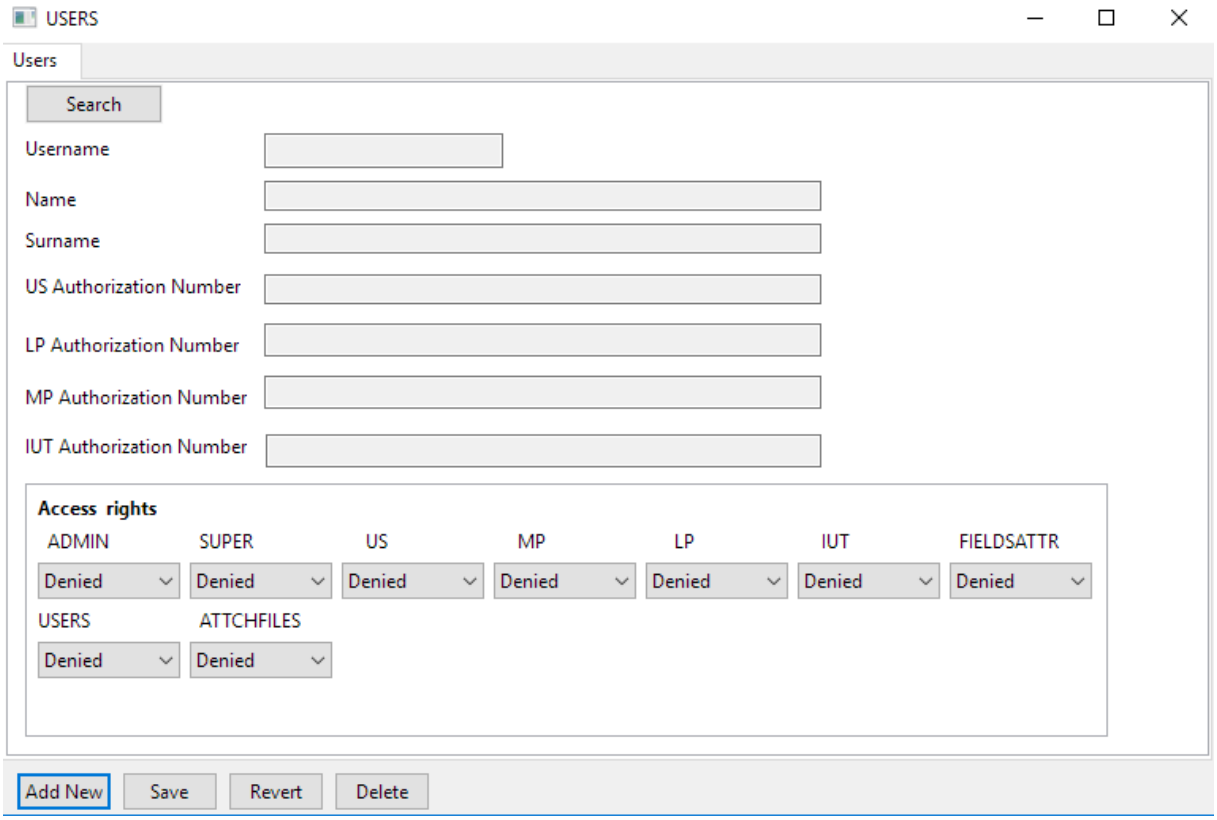



VISUAL AND LIQUID PENETRANT TEST REPORT
Search
Print Report
LP Certificate
Attached Files
Others
NO
Plant*
Date
01/01/1970
1. General data
Work Order*
Part description*
Customer order
Part #*
Rev.*
Stage of manufacturing
Reference documents 1
Reference documents 2
Reference documents 3
Rev.
Material 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

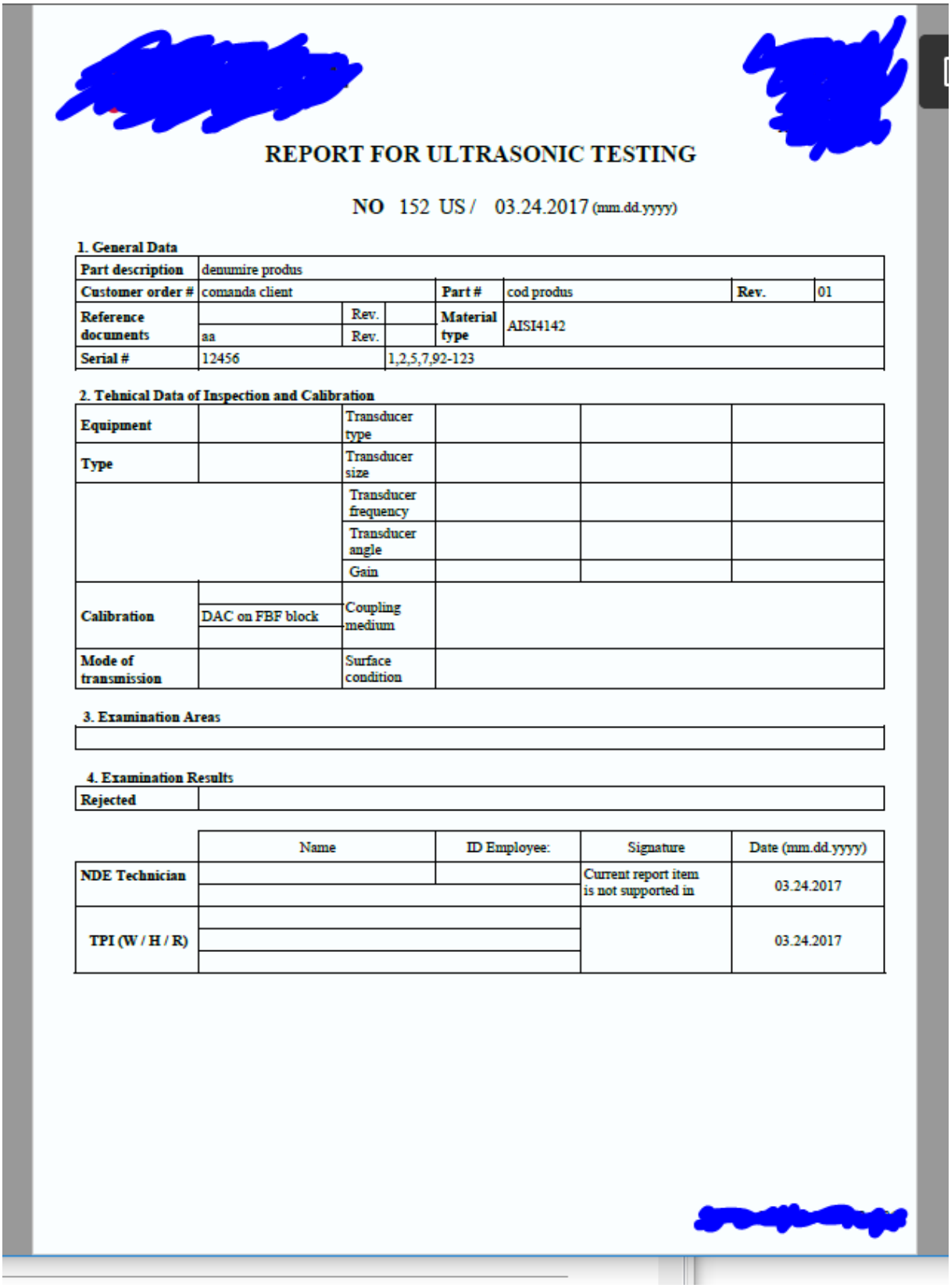
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IMMERSION ULTRASONIC TESTING INSPECTION REPORT
Search
Print Report
IUT Certificate
Attached Files
Others
NO
Plant*
Date
01/01/1970
1. General data
Part number*
Revision*
Order Number
Part description*
Quality Plan
Quantity
API Spec
PSL
Procedure / IS Number
Revision
Work Order*
Serial Number
Heat Num
Comment
2. Test conditions
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 Parameter
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
Add New
Save
Revert
Duplicate
Close document


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

Modele certificate



[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

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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 ☐ Before Weld	☐ After heat treatment ☐ 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

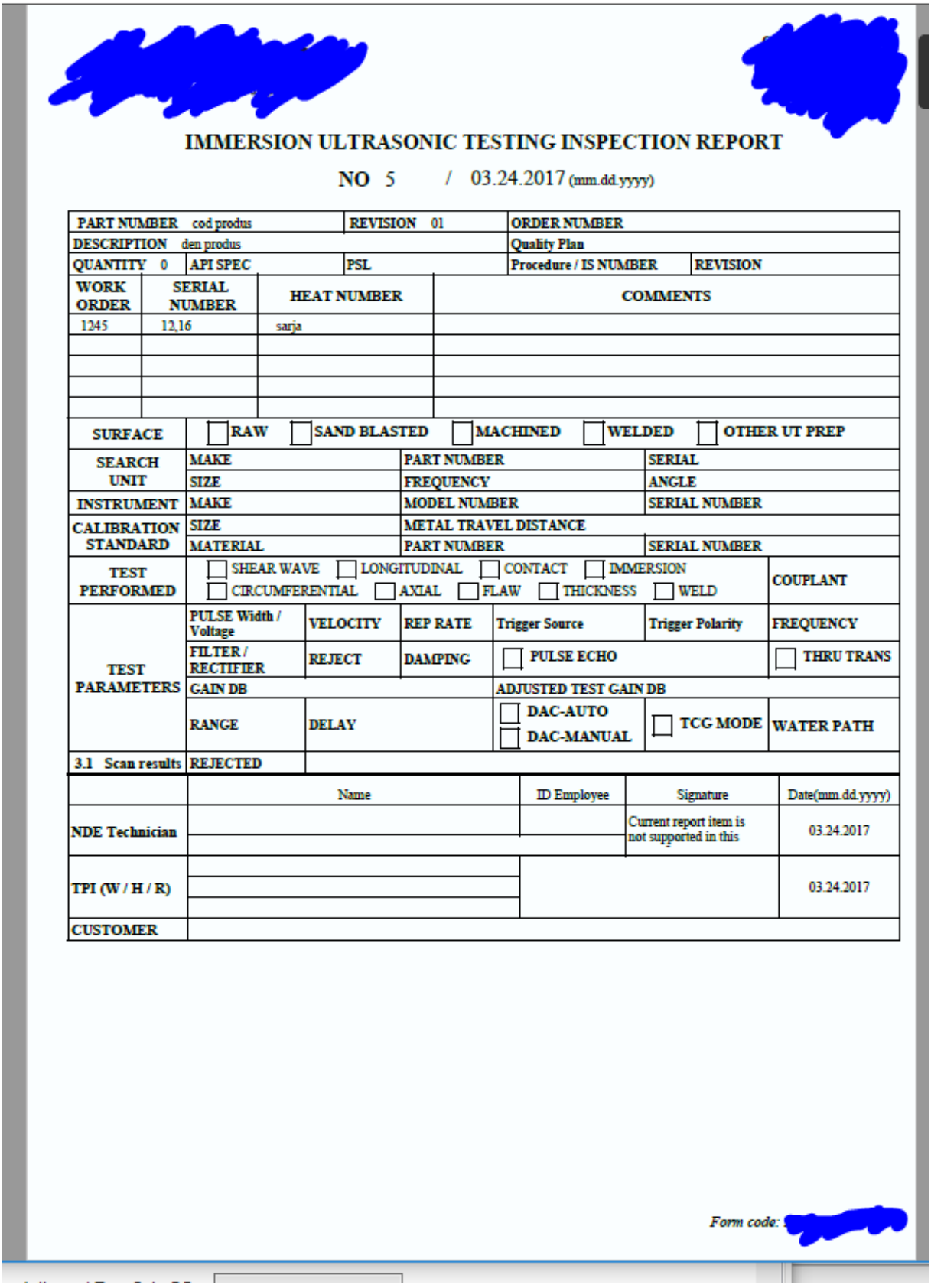
3.2 PM test result Rejected

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]

Stiva aplicatiei

