

PRESSURE EQUIPMENT DATA REPORT

EQUIPMENT GENERAL INFORMATION

District:	GRANDE PRAIRIE		
Facility:	Knopcik		
Location /LSD:	11-28-074-10W6	Operating Province:	Alberta
Equipment Name:	SEPARATOR		
Equipment Status:	Idle	Orientation:	Vertical
Skid No.:	Unit:		

EQUIPMENT STATIC DATA

AB Registration No.:	0433615	Serial No.:	V-2699A
Registration No./Other:		Equipment No.:	V-400
CRN NO.:	N7408.2	Unique ID No.:	
National Board No.:		Oncor ID No.:	171339
Manufacturer:	Opsco Industries Ltd.	Year Built:	1997
MAWP:	1435.00 (psi)	9894.04 (Kpa)	Temperature: 266.00 (F) 130.00 (C)
Diameter.:	48.000 (In)	1219.20 (mm)	Length: 246.00 (In) 6248.40 (mm)
Radiography:	RT1	Heat Treatment:	Yes
Corrosion allowance:	0.125 (In)	3.175 (mm)	MDMT: -4.00
Lining Or Coated:	No	Painted:	Yes
Insulated:	No	Internally Clad:	No
Hand Hole:	No	Support Type:	Saddle
Manway:	Yes	Manway Size(In):	20.00
Capacity/Volume(m3):		Nozzle Rating:	600.00

MATERIALS/COMPONENTS

Name	Joint Efficiency	Outside Diameter(In.)	Head Type	Material Type	Stress Value (PSI)	Nominal Thickness(In.)
SHELL	1.00	48.000		Unknown	17500	2.50
HEAD	1.00	48.000	Ellipsoidal	Unknown	17500	2.42
SHELL BT	1.00	12.750		Unknown	17500	
HEAD BT	1.00	12.750	Ellipsoidal	Unknown	17500	
BOOT 2	1.00	20.000		Unknown	17500	
BOOT HD 2	1.00	20.000	Ellipsoidal	Unknown	17500	



Client:
CNRL

PIPING STATIC DATA

Primary Flange Rating:	600	ASME B16.5 - Table 2-1.1 @ 150F:	1480 (psi)		
Pressure Use For TMin:	Vess Design Press	Piping Operating Press:	1435 (psi)		
Stress Value:	20000 (psi)	E Value:	1.00	Joint:	SMLS

SERVICE CONDITIONS

Sweet	Sour	Oil	Gas	Water
Amine	LPG	Condensate	Air	Glycol

COMMENTS

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Client:
CNRL

VISUAL INSPECTION REPORT

District:	GRANDE PRAIRIE	Facility:	Knopcik	Location/LSD:	11-28-074-10W6
Equipment Name:	SEPARATOR			Prov Reg No. :	0433615
Serial No.:	V-2699A	Equip No.:	V-400	National Board No.:	

INTERNAL INSPECTION

INSPECTION DATE:	Jan 4, 2019	INSPECTION INTERVAL:		NEXT INSPECTION DATE:	
ITEM	CONDITION	INSPECTION COMMENTS			
COATING	N/A	VESSEL NOT COATED			
ANODES	N/A	NO ANODES			
INTERNAL PIPING	N/A	NO INTERNAL PIPING			
TRAYS	N/A	NO INTERNAL TRAYS			
BAFFLES, DEFLECTOR PLATES, ETC	ACCEPT	NO PITTING, EROSION, OR CORROSION OBSERVED			
BOTTOM HEAD	ACCEPT	WEST HEAD, MANWAY DOLLAR PLATE HAS MINOR PITTING. AREA 1" X 4", MAX DEPTH <0.050" DEPTH. 12 O'CLOCK POSITION. MANWAY NOZZLE HAS PITTING AT MATCHING FACE OF CORRODED DOLLAR PLATE (12 O'CLOCK POSITION.) AREA 3" X 1", MAX MEASURED DEPTH 0.030"			
TOP HEAD	ACCEPT	EAST HEAD			
SHELL SECTIONS	ACCEPT	2 SHELL SECTIONS.			
DEMISTER PAD	ACCEPT	DEMISTER PAD IN PLACE AT TIME OF INSPECTION. BOLTING IS SECURE, PAD APPEARS CLEAN.			
WELDS	ACCEPT	ALL WELDS FOUND TO BE IN ACCEPTABLE CONDITION.			
REPAIRS REQUIRED	N/A	NO REPAIRS REQUIRED			
NDE	ACCEPT	MT ON INTERNAL WELDS. SEE REPORT.			
OTHER	N/A				

RECOMMENDATIONS:

VESSEL CLEANED AND DRAINED PRIOR TO INSPECTION.
MINOR PITTING FOUND AT MANWAY 12 O'CLOCK POSITION. NO CORROSION FOUND ON GASKET SEATING SURFACE. MONITOR AREA ON FUTURE INSPECTIONS.
VESSEL FIT FOR SERVICE.

I have performed the above inspections and certify that they have been done in accordance with our approved manual and that the information is accurate.

Inspector:	Codey Chmilar	ABSA PESL #:001158	Signature:		Date:	Jan 4, 2019
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REPORT SIGN-OFF

Where required , the above reports has been reviewed and accepted as noted below:

WQS Supervisor Name:		
WQS Supervisor Title/Cert No.:		Cert No.:
WQS Supervisor Signature/Date:		Date:

Where required , the above reports has been reviewed and accepted as noted below:

Client Supervisor Name:		
Client Supervisor Title/Cert No.:		
Client/Supervisor Signature/Date:		Date:



MAGNETIC PARTICLE EXAMINATION REPORT

Registration #:	0433615	Province:	AB	Report Date:	01/04/2019
Equipment Name:	SEPARATOR			Report #:	MT-01-1128
District:	GRANDE PRAIRIE	Location:	Knopcik	LSD:	11-28-074-10W6
CRN:	N7408.2	Skid No.:		SERIAL #:	V-2699A
Manway:	Yes	Coating:	False		
MAWP (psi):	1,435.00	Temp:	266.00		
Outstanding NCR's:	No	No.:	0		

CODE/STANDARD:	ASME sect 8, Div 1, Appendix 6/ASME Sect 5 ARTICLE 7
ITEM EXAMINED:	SEPARATOR - INTERNAL WELDS

TECHNIQUE DETAILS & EQUIPMENT

INSTRUMENT:	PARKER P2 AC YOKE SN 2247	MT PROCESS:	WET BLACK/WHITE/DRP
CALIBRATION DATE:	01/04/2019	LIGHTING:	FLASHLIGHT VTC 008 (>100 FOOT-CANDLES)
MAGNETIZING METHOD:	AC CONTINUOUS	MT PROCEDURE:	VTC - MT-1 REV 2
		MATERIAL TYPE/THICK:	CARBON STEEL/APPROX 1/2"
		INSPECTION TIME:	APPROX 10AM

SUFACE CONDITION: BUFFED

SCOPE: WET BLACK MT WAS CONDUCTED ON THE FOLLOWING COMPONENTS FOR SEPARATOR A0433615:

- INTERNAL WELDS.
- HEAD TO SHELL WELDS
- NOZZLE AND BOOT WELDS
- 12" AROUND SHELL "T" WELDS

RESULTS: THERE WERE NO RELEVANT REJECTABLE INDICATIONS FOUND IN THE AREAS TESTED.

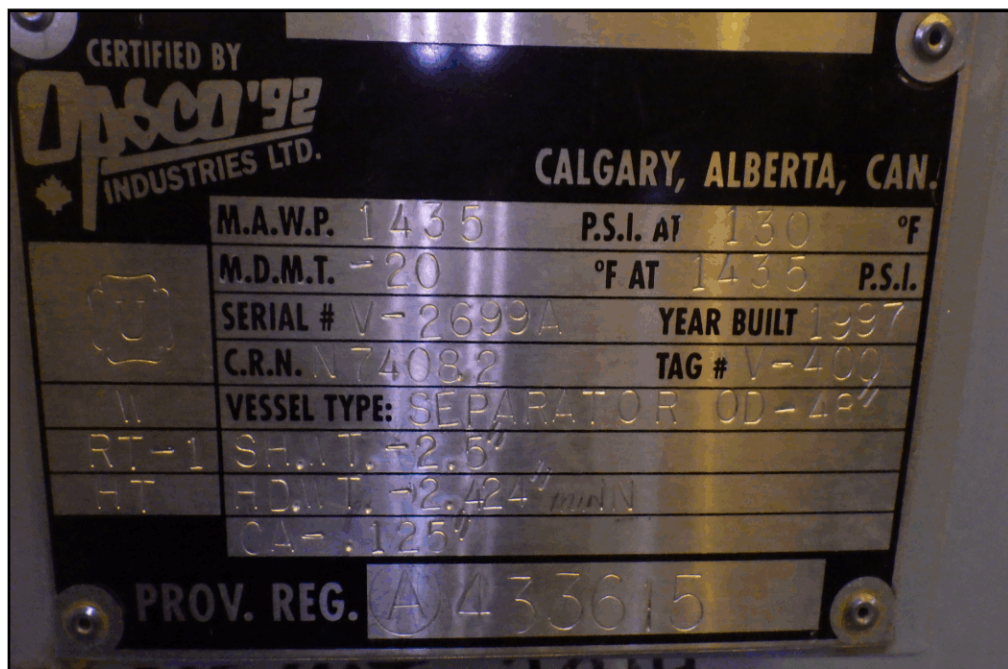
CHIEF INSPECTOR:	PESL #:	SIGN OFF DATE:	STATUS: Open
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TECHNICIAN:	Codey, Chmilar	SIGN:		CGSB/SNT LEVEL:	SNT LV 2	REG #:	20906
CLIENT REP:		SIGN:		DATE:			

PHOTOGRAPHS



LSD



NAMEPLATE

PHOTOGRAPHS

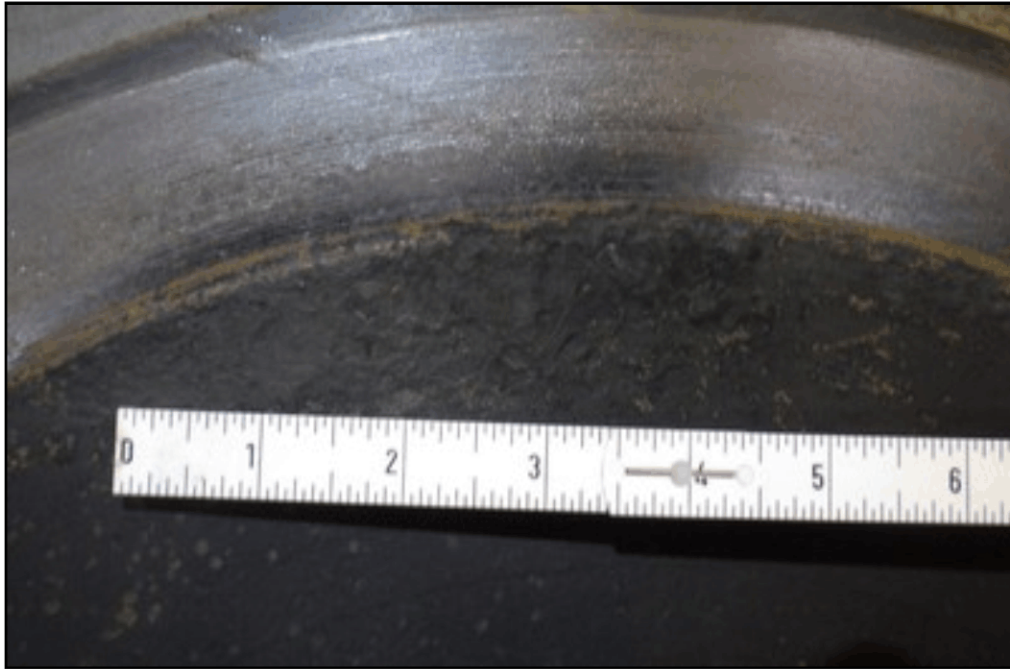


MAN WAY DOLLAR PLATE



DOLLAR PLATE PITTING

PHOTOGRAPHS

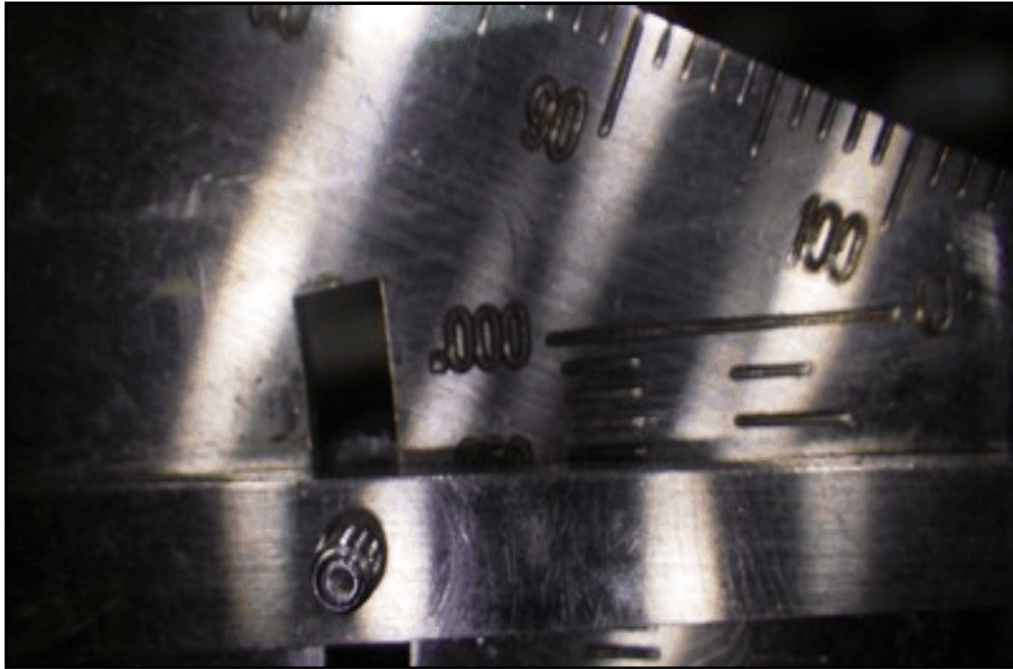


DOLLAR PLATE PITTING



DOLLAR PLATE PITTING

PHOTOGRAPHS



DOLLAR PLATE PITTING



MAN WAY NOZZLE CORROSION

PHOTOGRAPHS

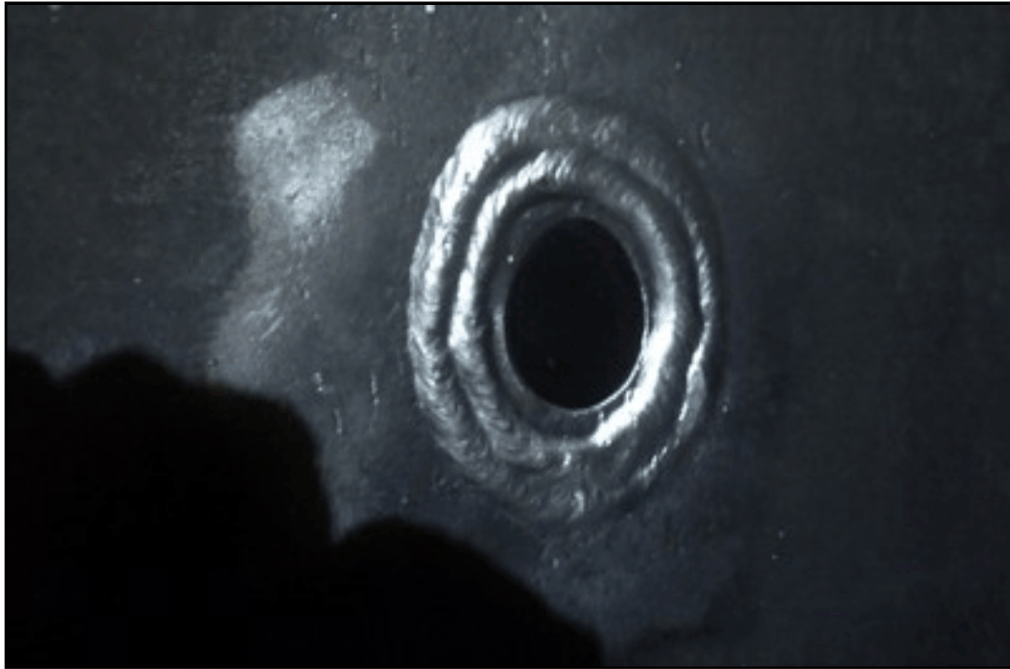


MAN WAY NOZZLE CORROSION



BUFFED WELDS

PHOTOGRAPHS



BUFFED WELDS

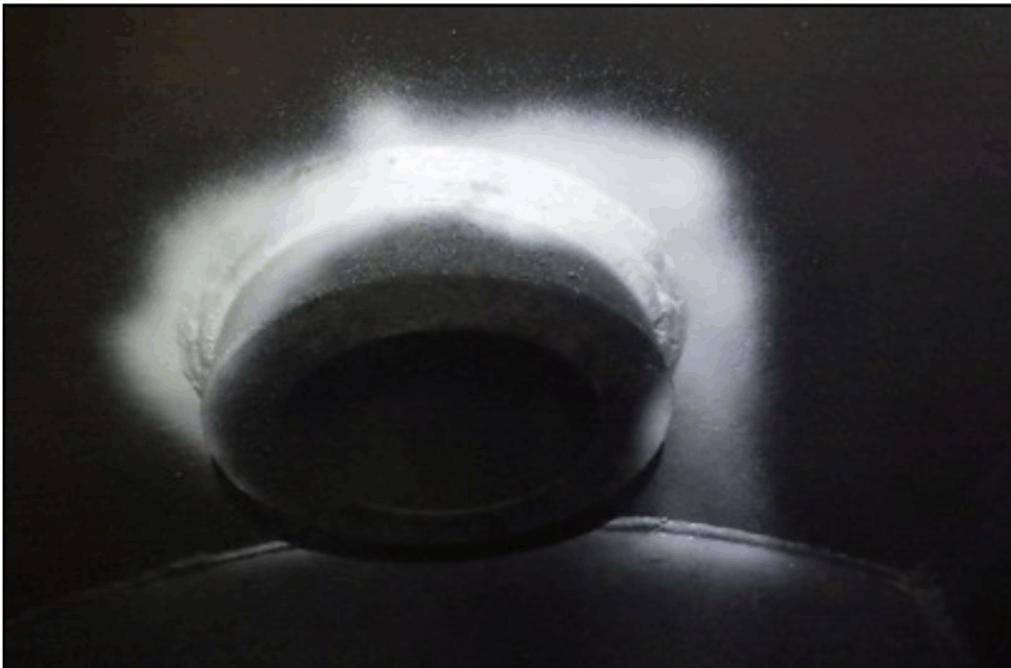


DEMISTER PAD

PHOTOGRAPHS



DEMISTER PAD



INLET NOZZLE

PHOTOGRAPHS



SHELL T'S MT



SHELL T'S MT

PHOTOGRAPHS

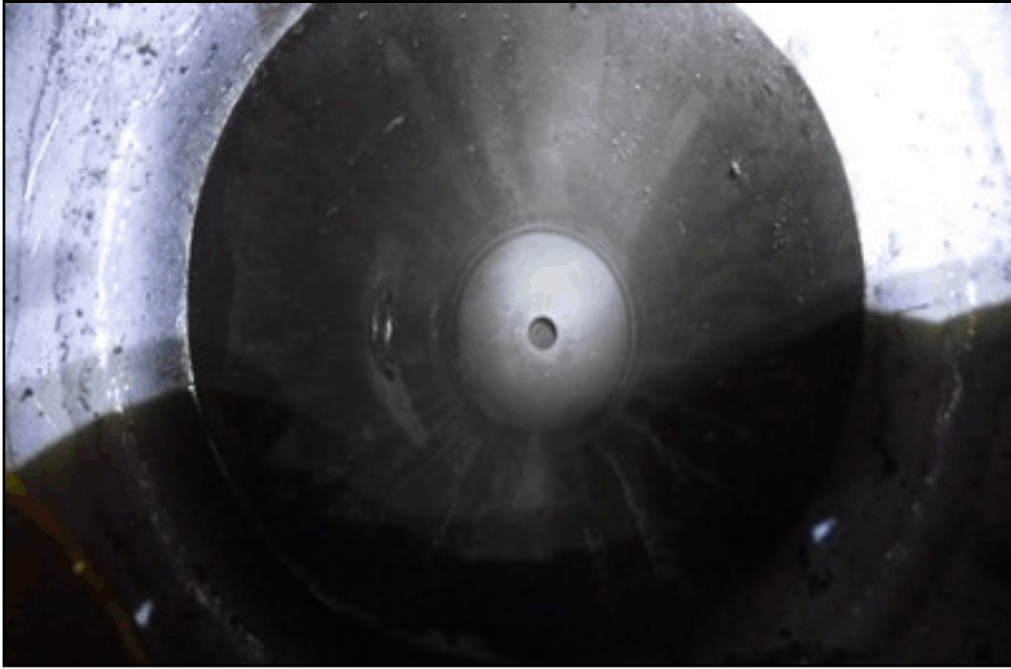


SHELL T'S MT

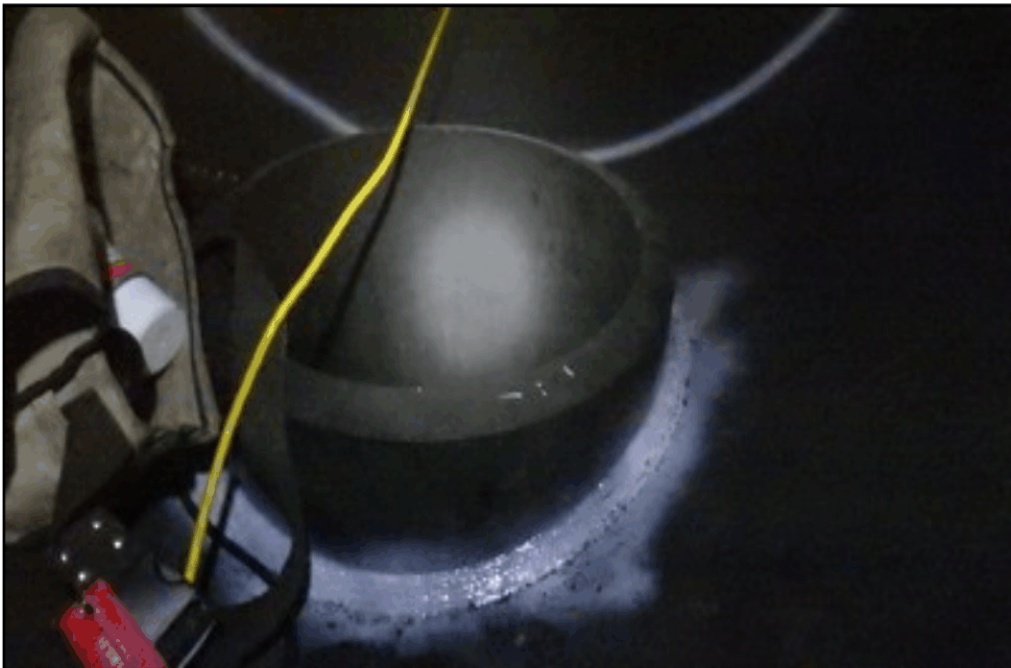


WATER BOOT MT

PHOTOGRAPHS

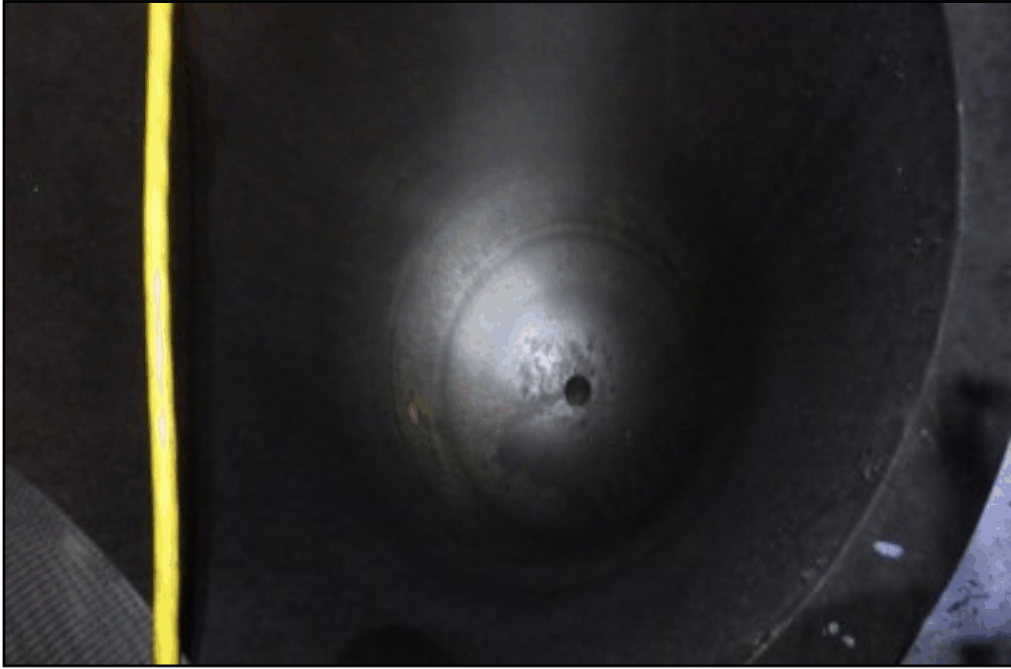


WATER BOOT MT

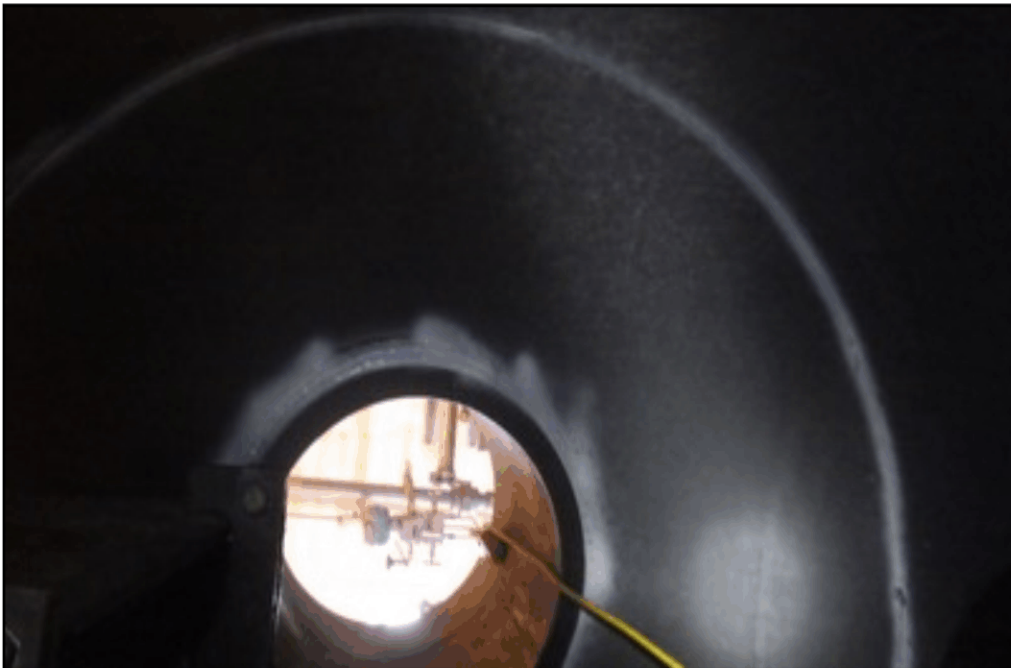


CONDI BOOT MT

PHOTOGRAPHS



CONDI BOOT INTERNAL



HEAD TO SHELL MT

PHOTOGRAPHS



MAN WAY NOZZLE MT



OVERALL

PHOTOGRAPHS



OVERALL