

## Ariel JGQ2-3

### Driver

Can accommodate a 3406NA, 3406TA, or 250HP electric motor

### Compressor

Ariel JGQ/2

S/N: F-15308

Mfg Date: Oct 2000

### Cylinders

Bore	Type	MAWP	S/N	VVCP
7.5	JG-DA	600#	C-153990	Plain Head
5.125	JG-CE	865#	C-153988	N
3	JG-HE	2200#	C-153989	N

### Cooler

R&R Engineering - Model # UI-72-10P – Job#: W394

Mfg Date: Jan 2015

	EJW	TAA	IC #1*	IC #2*	AC*
MAWP	150#	150#	500#	1000#	1900#
S/N:	W394.1	W394.2	F565.1	F565.2	F565.3

\* IC1, IC2, & AC sections are new sections built Dec 2019

### Pressure Vessels

	OD	MAWP	S/N	YR	Mfg
Suction	12-3/4"	645#	2487	2014	Arrow
1 <sup>st</sup> Interstage	10-3/4"	645#	2474	2014	Arrow
2 <sup>nd</sup> Interstage	8-5/8"	1287#	2481	2014	Arrow

### Unit History & Rebuild

This unit was packaged as a 3406TAA / Arrow VRS2-3 and put in service in May 2015. The unit sat idle for a year and a half and we brought it in for a rebuild and repackage. We pulled the engine, replaced the compressor with an Ariel JGQ/2, and ordered new high-pressure gas sections for the cooler.

Archrock was responsible for the repackaging including installing new piston rods, rings, rod and main bearings, thrust bearing, conn rod bushings, crosshead pins, crosshead bushing, frame oil pump, divider block, rebuilt lubrication system with new force feed pump, and all new gaskets, seals, and o-rings. New piping was installed as needed and the unit was fitted with new Mercer pressure relief valves. All cylinders were vatted, hydro-tested, magnaflux tested, cleaned and primed by TP Machine. All compressor valves and packing cases were rebuilt by M&J Valve Services.



Company: Ariel Corporation  
 Quote:  
 Case 1:

### Ariel Performance

Customer:  
 Inquiry:  
 Project:



7.7.6.0

#### Compressor Data:

Elevation,ft:	50.00	Barmtr,psia:	14.669	Ambient,F:	100.00
Frame:	JGQ/2	Stroke, in:	3.00	Rod Dia, in:	1.125
Max RL Tot, lbf:	20000	Max RL Tens, lbf:	10000	Max RL Comp, lbf:	11000
Rated RPM:	1800	Rated BHP:	280.0	Rated PS FPM:	900.0
Calc RPM:	1800.0	BHP:	187	Calc PS FPM:	900.0

#### Driver Data:

Type:	Nat. Gas
Mfg:	Caterpillar
Model:	G3306-TA
BHP:	203
Avail:	203

#### Disch Event

#### Services

Gas Model

#### Service 1

VMG-APRNL2

#### Stage Data:

	<b>1 (SG)</b>	<b>2</b>	<b>3</b>
Target Flow, MMSCFD	1.000	1.000	1.000
Flow Calc, MMSCFD	0.994	0.993	0.987
BHP per Stage	80.7	55.8	44.6
Specific Gravity	0.6500	0.6500	0.6462
Ratio of Sp Ht (N)	1.2464	1.2532	1.2712
Comp Suct (Zs)	0.9872	0.9628	0.9149
Comp Disch (Zd)	0.9818	0.9573	0.9196
Pres Suct Line, psig	50.00	N/A	N/A
Pres Suct Flg, psig	49.35	225.82	572.30
Pres Disch Flg, psig	230.82	581.65	1262.65
Pres Disch Line, psig	N/A	N/A	1250.00
Pres Ratio F/F	3.834	2.480	2.176
Temp Suct, F	80.00	120.00	120.00
Temp Clr Disch, F	120.00	120.00	120.00

#### Cylinder Data:

	<b>Throw 1</b>	<b>Throw 2</b>	<b>Throw 2</b>
Cyl Model	7-1/2JG	5-1/8JG-CE	3JG-HE
Cyl Bore, in	7.500	5.125	3.000
Cyl RDP (API), psig	545.5	786.4	2000.0
Cyl MAWP, psig	600.0	865.0	2200.0
Cyl Action	DBL	CE	HE
Cyl Disp, CFM	273.0	61.4	22.1
Pres Suct Intl, psig	45.39	213.45	548.55
Temp Suct Intl, F	87	124	123
Pres Disch Intl, psig	244.49	611.02	1312.77
Temp Disch Intl, F	270	256	240
HE Suct Gas Vel, FPM	8140	0	6485
HE Disch Gas Vel, FPM	7408	N/A	5848
HE Spcrs Used/Max	0/4	N/A	0/2
HE Vol Pkt Avail	1.49+62.66	N/A	No Pkt
Vol Pkt Used	0.00 (V) %	N/A %	No Pkt
HE Min Clr, %	15.49	N/A	19.09
HE Total Clr, %	16.98	N/A	19.09
CE Suct Gas Vel, FPM	7957	7485	0
CE Disch Gas Vel, FPM	7242	6740	N/A
CE Spcrs Used/Max	0/4	0/2	N/A
CE Min Clr, %	16.28	19.42	N/A
CE Total Clr, %	16.28	19.42	N/A
Suct Vol Eff HE/CE, %	58.8/60.2	N/A/73.8	79.3/N/A
Disch Event HE/CE, ms	<u>4.5</u> /5.4	N/A/7.3	7.1/N/A
Suct Pseudo-Q HE/CE	6.6/6.4	N/A/5.0	4.2/N/A
Gas Rod Ld Comp, %	80.5 C	74.1 C	74.1 C
Gas Rod Ld Tens, %	85.4 T	50.6 T	50.6 T
Gas Rod Ld Total, %	87.0	66.0	66.0
Xhd Pin Deg/%RvrsI lbf	167/98.3	138/40.6	138/40.6
Flow Calc, MMSCFD	0.994	0.993	0.987
Cyl BHP	80.7	55.8	44.6



Company: Ariel Corporation  
 Quote:  
 Case 1:

## Ariel Performance

Customer:  
 Inquiry:  
 Project:



7.7.6.0

### Compressor Data:

Elevation,ft:	50.00	Barmtr,psia:	14.669	Ambient,F:	100.00
Frame:	JGQ/2	Stroke, in:	3.00	Rod Dia, in:	1.125
Max RL Tot, lbf:	20000	Max RL Tens, lbf:	10000	Max RL Comp, lbf:	11000
Rated RPM:	1800	Rated BHP:	280.0	Rated PS FPM:	900.0
Calc RPM:	1800.0	BHP:	193	Calc PS FPM:	900.0

### Driver Data:

Type:	Nat. Gas
Mfg:	Caterpillar
Model:	G3306-TA
BHP:	203
Avail:	203

### Disch Event

### Services

Gas Model

### Service 1

VMG-APRNL2

### Stage Data:

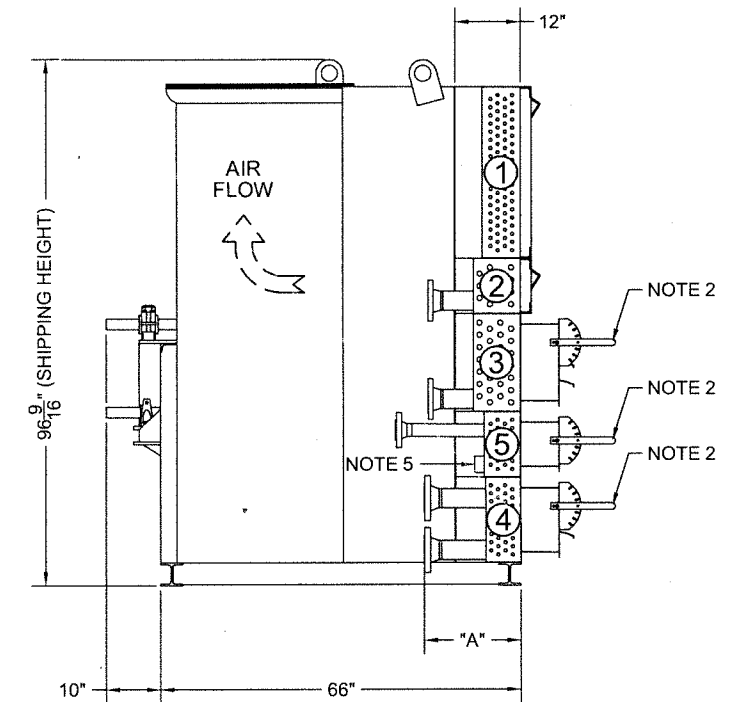
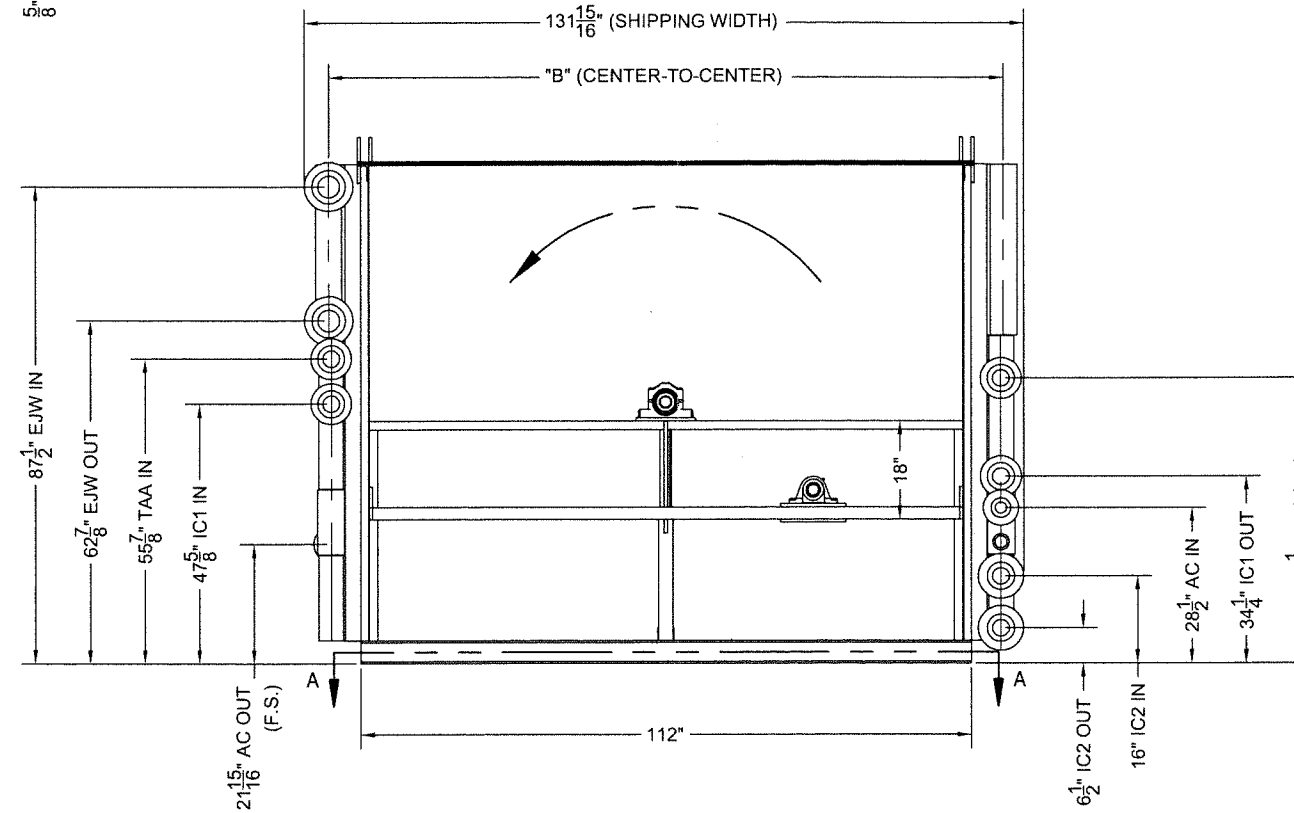
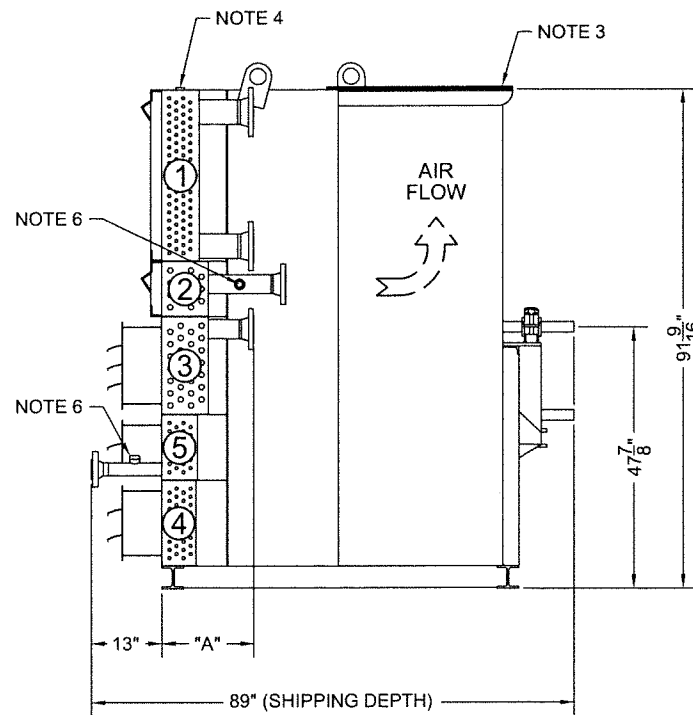
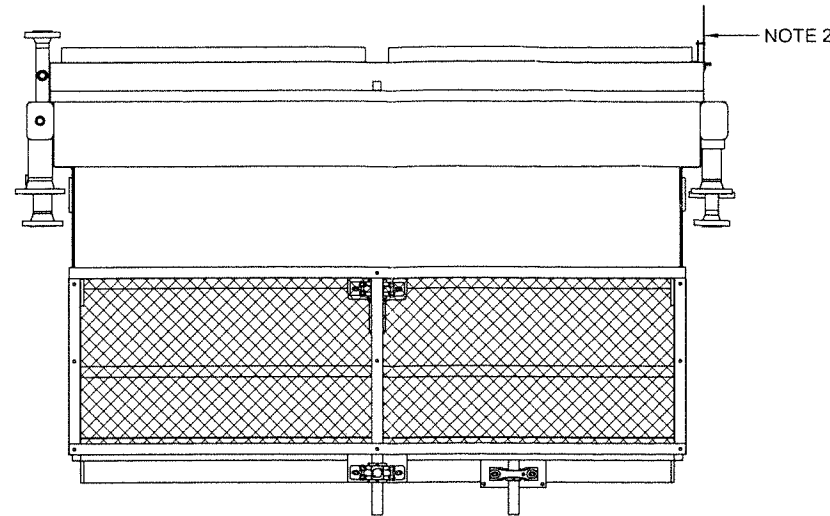
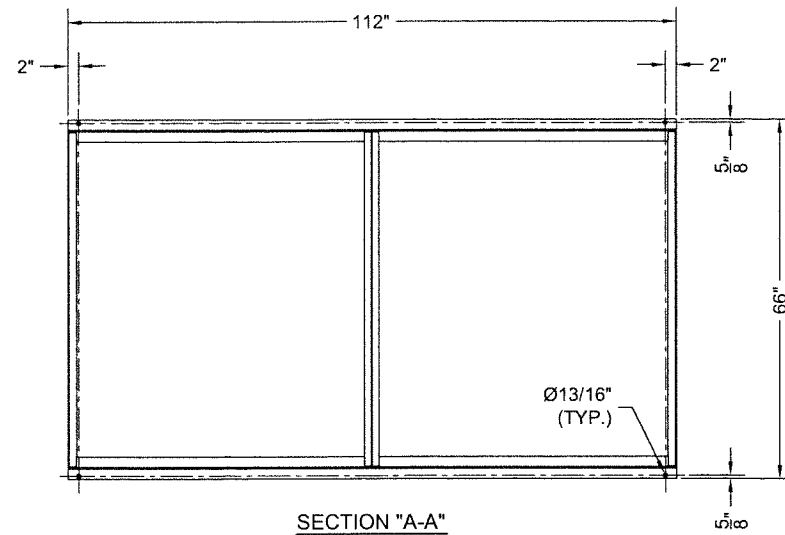
	<b>1 (SG)</b>	<b>2</b>	<b>3</b>
Target Flow, MMSCFD	1.000	1.000	1.000
Flow Calc, MMSCFD	0.989	0.988	0.983
BHP per Stage	80.7	56.8	49.2
Specific Gravity	0.6500	0.6500	0.6461
Ratio of Sp Ht (N)	1.2463	1.2531	1.2705
Comp Suct (Zs)	0.9872	0.9626	0.9128
Comp Disch (Zd)	0.9817	0.9571	0.9211
Pres Suct Line, psig	50.00	N/A	N/A
Pres Suct Flg, psig	49.35	227.28	588.37
Pres Disch Flg, psig	232.28	598.37	1414.15
Pres Disch Line, psig	N/A	N/A	1400.00
Pres Ratio F/F	3.857	2.534	2.369
Temp Suct, F	80.00	120.00	120.00
Temp Clr Disch, F	120.00	120.00	120.00

### Cylinder Data:

	<b>Throw 1</b>	<b>Throw 2</b>	<b>Throw 2</b>
Cyl Model	7-1/2JG	5-1/8JG-CE	3JG-HE
Cyl Bore, in	7.500	5.125	3.000
Cyl RDP (API), psig	545.5	786.4	2000.0
Cyl MAWP, psig	600.0	865.0	2200.0
Cyl Action	DBL	CE	HE
Cyl Disp, CFM	273.0	61.4	22.1
Pres Suct Intl, psig	45.39	214.83	563.94
Temp Suct Intl, F	87	124	123
Pres Disch Intl, psig	246.01	628.44	1469.11
Temp Disch Intl, F	271	259	253
HE Suct Gas Vel, FPM	8140	0	6485
HE Disch Gas Vel, FPM	7408	N/A	5848
HE Spcrs Used/Max	0/4	N/A	0/2
HE Vol Pkt Avail	1.49+62.66	N/A	No Pkt
Vol Pkt Used	0.00 (V) %	N/A %	No Pkt
HE Min Clr, %	15.49	N/A	19.09
HE Total Clr, %	16.98	N/A	19.09
CE Suct Gas Vel, FPM	7957	7485	0
CE Disch Gas Vel, FPM	7242	6740	N/A
CE Spcrs Used/Max	0/4	0/2	N/A
CE Min Clr, %	16.28	19.42	N/A
CE Total Clr, %	16.28	19.42	N/A
Suct Vol Eff HE/CE, %	58.5/59.9	N/A/73.0	76.7/N/A
Disch Event HE/CE, ms	<u>4.5</u> /5.4	N/A/7.1	6.7/N/A
Suct Pseudo-Q HE/CE	6.6/6.4	N/A/5.0	4.2/N/A
Gas Rod Ld Comp, %	81.1 C	84.1 C	84.1 C
Gas Rod Ld Tens, %	86.1 T	52.7 T	52.7 T
Gas Rod Ld Total, %	87.6	72.6	72.6
Xhd Pin Deg/%RvrsI lbf	167/97.0	136/39.4	136/39.4
Flow Calc, MMSCFD	0.989	0.988	0.983
Cyl BHP	80.7	56.8	49.2

RELEASED FOR FABRICATION  
CERTIFIED CORRECT

By *[Signature]* Date *12-19-14*



- NOTES:  
 1. COOLER PAINTED WITH R&R STANDARD RED PRIMER.  
 2. MANUAL LOUVER OPERATOR LOCATION.  
 3. BOLT-ON GUARD OVER DISCHARGE.  
 4. 1"-3000# HALF COUPLING.  
 5. 2"-3000# HALF COUPLING.  
 6. 1"-3000# THREADOLET.  
 7. TUBES FOR 'TAA' SECTION ARE SA249-304 STAINLESS STEEL.

BEARING DATA		FAN DATA		REFERENCE DIMENSIONS		
FAN:	1 15/16" D.I. PILLOW BLOCK	TYPE:	MOORE CLASS 10000VT	COIL	DIM "A"	DIM "B"
IDLER:	1 15/16" SCM PILLOW BLOCK	SERIES:	24	1	17"	123 3/4"
		HP:	14	2	22 7/8" (IN), 17" (OUT)	122 7/8"
		RPM:	515	3	17"	122 7/8"
		DIAMETER:	72"	4	17 3/4"	122 7/8"
		BLADES:	6	5	23 1/8"	122 7/8"
		PITCH:	17.9" @ CLEVIS	6		

REVISIONS			
REV	DESCRIPTION	DATE	BY
1	ADDED STAINLESS STEEL TUBE NOTE.	12/11/14	DNA
2	CHANGED IDLER BEARINGS TO SCM PILLOW BLOCKS.	12/19/14	DNA

COIL DATA					
COIL 1	COIL 2	COIL 3	COIL 4	COIL 5	COIL 6
SERVICE: EJW	SERVICE: TAA	SERVICE: IC1	SERVICE: IC2	SERVICE: AC	SERVICE:
DESIGN/TEST PRES: 150/195 PSIG	DESIGN/TEST PRES: 150/195 PSIG	DESIGN/TEST PRES: 215/280 PSIG	DESIGN/TEST PRES: 500/650 PSIG	DESIGN/TEST PRES: 1000/1300 PSIG	DESIGN/TEST PRES:
MDMT/DESIGN TEMP: ---/300 °F	MDMT/DESIGN TEMP: ---/300 °F	MDMT/DESIGN TEMP: -20/350 °F	MDMT/DESIGN TEMP: -20/350 °F	MDMT/DESIGN TEMP: -20/350 °F	MDMT/DESIGN TEMP:
ASME CODE STAMP: NO	ASME CODE STAMP: NO	ASME CODE STAMP: YES	ASME CODE STAMP: YES	ASME CODE STAMP: YES	ASME CODE STAMP:
NATIONAL BOARD: NO	NATIONAL BOARD: NO	NATIONAL BOARD: YES	NATIONAL BOARD: YES	NATIONAL BOARD: YES	NATIONAL BOARD:
<b>CONNECTIONS</b>	<b>CONNECTIONS</b>	<b>CONNECTIONS</b>	<b>CONNECTIONS</b>	<b>CONNECTIONS</b>	<b>CONNECTIONS</b>
INLET: (1) 4"-150# RFWN	INLET: (1) 3"-150# RFWN	INLET: (1) 3"-150# RFWN	INLET: (1) 3"-300# RFWN	INLET: (1) 2"-600# RFWN	INLET:
OUTLET: (1) 4"-150# RFWN	OUTLET: (1) 3"-150# RFWN	OUTLET: (1) 3"-150# RFWN	OUTLET: (1) 3"-300# RFWN	OUTLET: (1) 2"-600# RFWN	OUTLET:
AUX: (1) 1"-3000# HALF CPLG	AUX: (1) 1"-3000# TOL	AUX:	AUX:	AUX: (1) 2"-3000# HALF CPLG	AUX:
AUX:	AUX:	AUX:	AUX:	AUX: (1) 1"-3000# TOL	AUX:
<b>LOUVER / GUARD</b>	<b>LOUVER / GUARD</b>	<b>LOUVER / GUARD</b>	<b>LOUVER / GUARD</b>	<b>LOUVER / GUARD</b>	<b>LOUVER / GUARD</b>
CORE GUARD	CORE GUARD	MANUAL SHUTTERS	MANUAL SHUTTERS		

**R&R ENGINEERING CO., INC.**  
 P.O. Box 700005  
 Tulsa, Oklahoma 74170  
 (918) 252-2571  
 (918) 252-2574 Fax

CUSTOMER: **CESCO**

BY: DNA DATE: 12/08/2014

SPEC SHEET: 12CE022.DOC

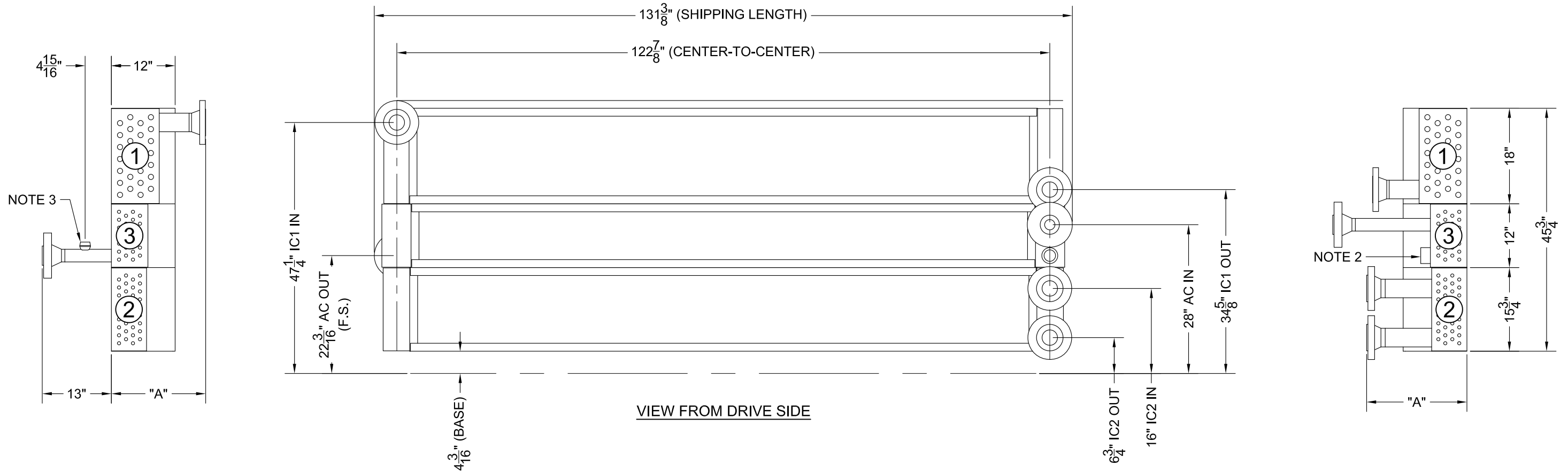
P.O. #: CES120214-3

EST. SHIP WT: 7,200 LBS. DRAWING REVISION #: 2

ONE MODEL: UI-72-10P DRAWING NO.: W-394

CHECK ONE  
 APPROVED WITHOUT CHANGE  
 APPROVED WITH CHANGES  
 RESUBMIT WITH CHANGES

By \_\_\_\_\_ Date \_\_\_\_\_



NOTES:  
 1. SECTIONS PAINTED WITH R&R STANDARD RED PRIMER.  
 2. 2"-3000# HALF COUPLING.  
 3. 1"-3000# THREAOLET.

**REFERENCE DIMENSIONS**

COIL	DIM "A"	DIM "B"	DIM "C"	DIM "D"
1	17 3/4"			
2	18 7/8"			
3	25 1/4"			
4				
5				
6				

**REVISIONS**

REV	DESCRIPTION	DATE	BY

**COIL DATA**

COIL 1	COIL 2	COIL 3	COIL 4	COIL 5	COIL 6
SERVICE: IC1	SERVICE: IC2	SERVICE: AC	SERVICE:	SERVICE:	SERVICE:
DESIGN/TEST PRES: 500/650 PSIG	DESIGN/TEST PRES: 1000/1300 PSIG	DESIGN/TEST PRES: 1900/2470 PSIG	DESIGN/TEST PRES:	DESIGN/TEST PRES:	DESIGN/TEST PRES:
MDMT/DESIGN TEMP: -20/350° F	MDMT/DESIGN TEMP: -20/350° F	MDMT/DESIGN TEMP: -20/350° F	MDMT/DESIGN TEMP:	MDMT/DESIGN TEMP:	MDMT/DESIGN TEMP:
ASME CODE STAMP: YES	ASME CODE STAMP: YES	ASME CODE STAMP: YES	ASME CODE STAMP:	ASME CODE STAMP:	ASME CODE STAMP:
NATIONAL BOARD: YES	NATIONAL BOARD: YES	NATIONAL BOARD: YES	NATIONAL BOARD:	NATIONAL BOARD:	NATIONAL BOARD:
<b>CONNECTIONS</b>	<b>CONNECTIONS</b>	<b>CONNECTIONS</b>	<b>CONNECTIONS</b>	<b>CONNECTIONS</b>	<b>CONNECTIONS</b>
INLET: (1) 3"-300# RF WN	INLET: (1) 3"-600# RF WN	INLET: (1) 2"-1500# RF WN	INLET:	INLET:	INLET:
OUTLET: (1) 3"-300# RF WN	OUTLET: (1) 3"-600# RF WN	OUTLET: (1) 2"-1500# RF WN	OUTLET:	OUTLET:	OUTLET:
AUX:	AUX:	AUX: (1) 2"-3000# HALF CPLG	AUX:	AUX:	AUX:
AUX:	AUX:	AUX: (1) 1"-3000# RF WN	AUX:	AUX:	AUX:
<b>LOUVER / GUARD</b>	<b>LOUVER / GUARD</b>	<b>LOUVER / GUARD</b>	<b>LOUVER / GUARD</b>	<b>LOUVER / GUARD</b>	<b>LOUVER / GUARD</b>

**R&R ENGINEERING CO., INC.**  
 P.O. Box 70005  
 Tulsa, Oklahoma 74170  
 (918) 252-2571  
 (918) 252-2574 Fax

CUSTOMER:	BY: DNA	DATE: 09/27/2019
RYNOK INDUSTRIES	SPEC SHEET: 09RY191.DOC	
	P.O. #: C-180	
EST. SHIP WT: 2,100 LBS.	DRAWING REVISION #: 0	
ONE MODEL: SECTIONS	DRAWING NO: F-565	

R & R ENGINEERING CO., INC.  
TULSA, OKLAHOMA

-----SPECIFICATION SHEET-----

CUSTOMER : RYNOK	DATE: 09/24/2019
REFERENCE: W-394	ITEM: 09RY191(19)
MODEL : SECTIONS ONLY	NUMBER REQUIRED: ONE
R&R SERIAL NUMBER: F-565	FILE: F-565.DOC

-----PERFORMANCE OF ONE UNIT-----

FLUID	EJW*	TAA*	IC1 (NEW)	IC2 (NEW)	AC (NEW)
FLOW, LBM/HR	61126.	1782.	2041.	2039.	2016.
, GPM OR MMSCFD	119.539	0.561	0.989	0.988	0.983
PCT EG OR GAS SP.GR.	50.00	1.00	0.65	0.65	0.65
TEMPERATURE IN, °F	195.0	181.0	271.0	259.0	253.0
TEMPERATURE OUT, °F	177.4	130.0	120.0	120.0	120.0
INLET PRESSURE, PSIA	NOMINAL	23.8	246.9	613.0	1428.0
PRESSURE DROP, PSI.	3.7	0.5	0.7	0.7	1.6
DUTY, BTU/HR	934000.	21979.	172520.	164835.	169840.
CORRECTED MTD, °F	58.7	48.4	58.6	55.9	51.0
BARE TUBE RATE	126.1	12.5	43.7	53.6	79.1
FOULING	0.00100	0.00200	0.00100	0.00100	0.00100
BARE TUBE SURF., FT <sup>2</sup>	126	36	67	55	42
TOTAL SURFACE, FT <sup>2</sup>	2019	775	1440	880	673

-----CONSTRUCTION-----

NUMBER OF SECTIONS	1	1	1	1	1
TUBES/SECTION	78	14	28	36	26
LENGTH, FEET	10	10	10	10	10
ROWS - PASSES	4 - 2	4 - 1	4 - 3	4 - 2	4 - 3
TUBE O.D. AND BWG	0.625x16	1.000x16	1.000x16	0.625x16	0.625x16
TUBE MATERIAL	SA214	SA214	SA214	SA214	SA214
DESIGN PRESS., PSI.	150	150	500	1000	1900
DESIGN TEMP., °F	300	300	350	350	350
NOZZLES	4"150#RF 3"150#RF 3"300#RF 3"600#RF 2"900#RF				
HEADERS	CARBON STEEL, BOX TYPE WITH REMOVABLE PLUGS				
PLUG TYPE	TAPERED	SHOULDER	SHOULDER	SHOULDER	SHOULDER
PLUG MATERIAL	STEEL	STEEL	STEEL	STEEL	STEEL
FINS	ALUMINUM, ANGLE BASE, MECHANICALLY BONDED				
ASME CODE STAMP	NO	NO	YES	YES	YES
NATIONAL BOARD	NO	NO	YES	YES	YES
C.R.N.	NO	NO	NO	NO	NO
GROOVED TUBEHOLES	NO	YES	YES	YES	YES
CORROSION ALLOW., INCHES	0.000	0.000	0.000	0.000	0.000
SHUTTERS	NO	NO	NO	NO	NO

-----AIR DATA-----

INLET AIR, °F	100.0	ELEVATION, FEET	50.
OUTLET AIR, °F	129.9	TOTAL SCFM REQUIRED	45041.

-----MECHANICAL EQUIPMENT-----

FAN	DRIVE	DRIVER
NUMBER	V-BELT	TYPE
HP/FAN	SIZE	MAKE
RPM	NUMBER/FAN	SIZE
DIAMETER	LARGE SHV.	HP/DRIVER
BLADES	SMALL SHV.	RPM
PITCH	GEAR	ENCLOSURE
MAKE	RATIO	
MATERIAL	AGMA HP	VOLTAGE
BORE	COUPLING	PHASE
ROTATION		CYCLES
WEIGHT	REMARKS: *EXISTING SECTIONS	

DATA SHEET (5)  
CYLINDER INSPECTION REPORT  
 (Page 1 of 1)

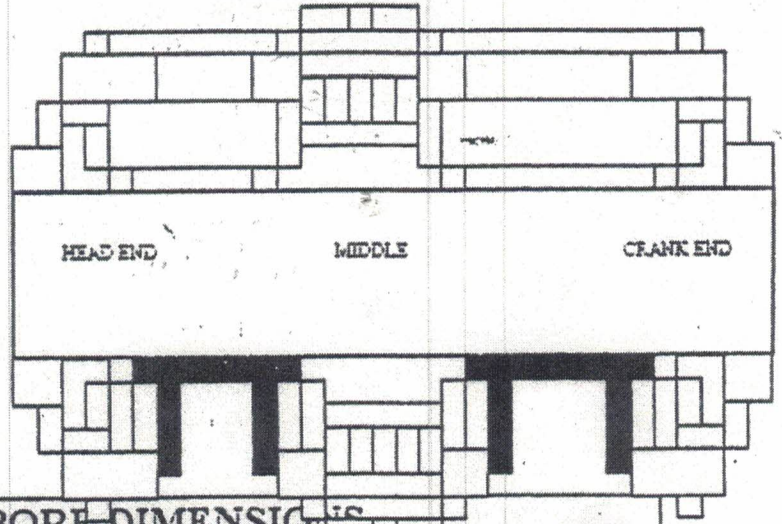
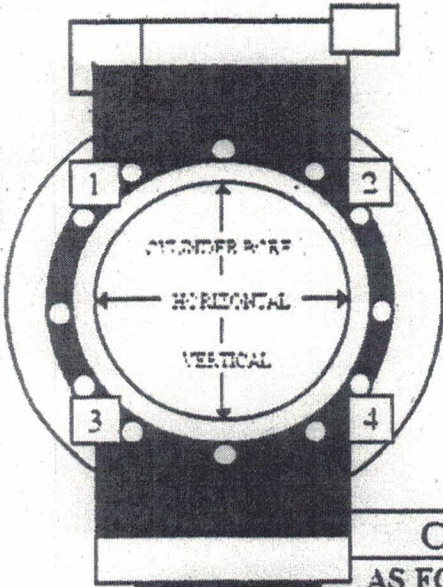
PUMP MECHANICS: J. Francis

DATE: 11-7-19

WORK ORDER #: 23928-01

PISTON #: 7.500

C-153990



**CYLINDER BORE DIMENSIONS**

	AS FOUND		MIN	REQUIRED		MAX	AS LEFT	
	VERT.	HORIZ.		VERT.	HORIZ.		VERT.	HORIZ.
HEAD END	7.501	7.500						
MIDDLE	7.502	7.503						
CRANK END	7.502	7.501						

NOTED CONDITIONS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**INSPECTION OF VALVE SEATS**

NOTED CONDITIONS: GREEN POLISH  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

DATA SHEET (5)  
CYLINDER INSPECTION REPORT  
 (Page 1 of 1)

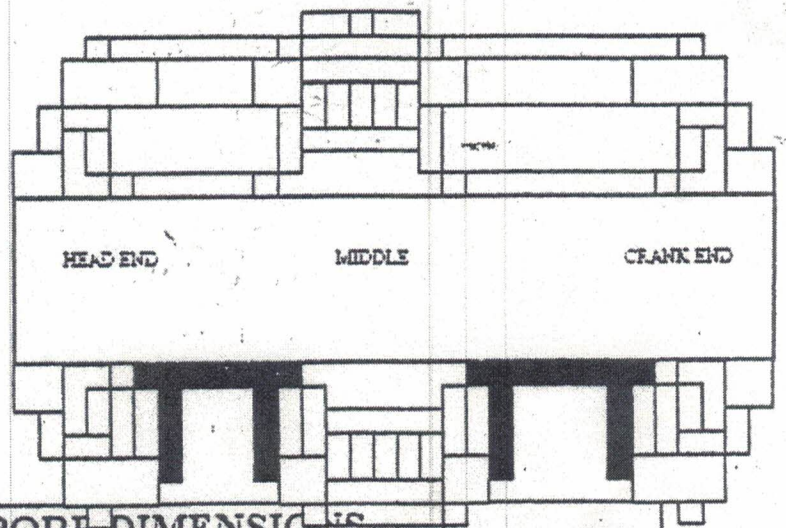
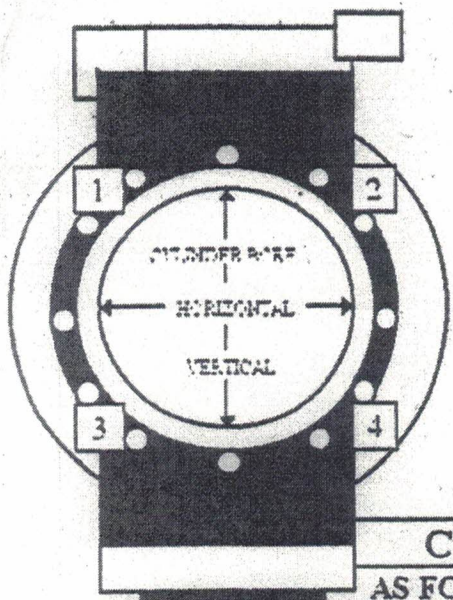
PUMP MECHANICS: J. Francis

DATE: 11-7-19

WORK ORDER #: 23928-02

PISTON #: 5.125

C-153988



**CYLINDER BORE DIMENSIONS**

	AS FOUND		MIN	REQUIRED		MAX	AS LEFT	
	VERT.	HORIZ.		VERT.	HORIZ.		VERT.	HORIZ.
HEAD END	5.127	5.129						
MIDDLE	5.126	5.1285						
CRANK END	5.125	5.1285						

NOTED CONDITIONS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**INSPECTION OF VALVE SEATS**

NOTED CONDITIONS: GOOD POLISH  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**DATA SHEET (S)**  
**CYLINDER INSPECTION REPORT**  
 (Page 1 of 1)

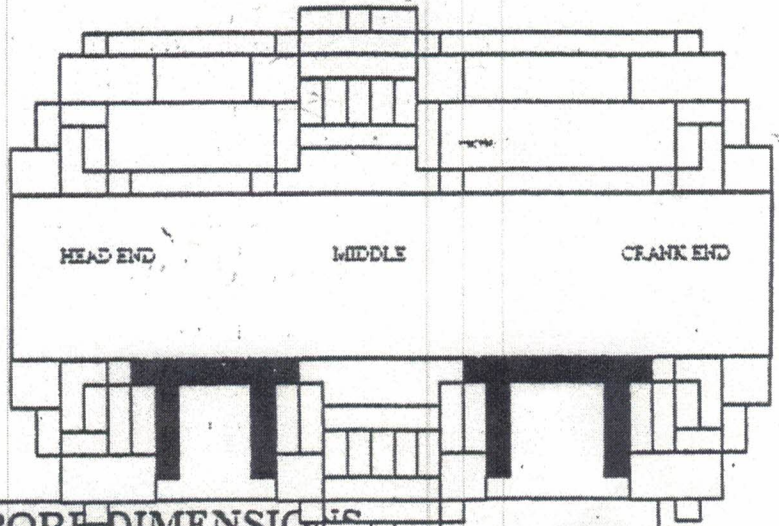
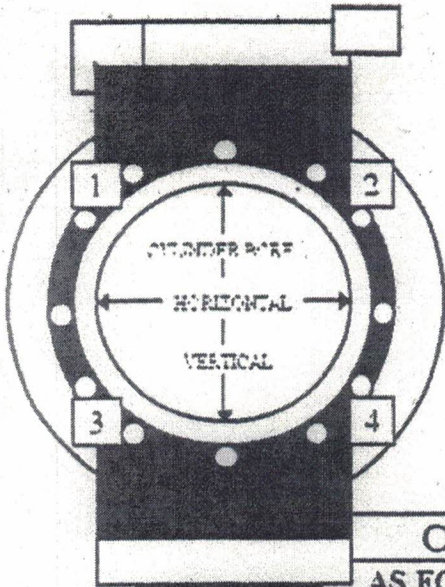
PUMP MECHANICS: J Francis

DATE: 11-7-19

WORK ORDER #: 23928-03

PISTON #: 3.00

C-153989



**CYLINDER BORE DIMENSIONS**

	AS FOUND		MIN	REQUIRED		MAX	AS LEFT	
	VERT.	HORIZ.		VERT.	HORIZ.		VERT.	HORIZ.
HEAD END	3.001	3.001						
MIDDLE	3.000	3.001						
CRANK END	3.000	3.000						

NOTED CONDITIONS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**INSPECTION OF VALVE SEATS**

NOTED CONDITIONS: Good Polish  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



NON-DESTRUCTIVE TESTING AND INSPECTION

17110 East Pine St, Tulsa, OK 74116
Tel: (918) 234-6300 Fax: (918) 234-6301

CUSTOMER DATA

NAME TP Machine & Tool Co., Inc.
ADDRESS 4300 S. HIGH AVE.; OKC OK 73129
PUSHASE ORDER # 11148
ATTENTION
DAY WEDNESDAY DATE 11/6/2019

NON-DESTRUCTIVE TESTING AND INSPECTION

MAGNETIC PARTICLE INSPECTION REPORT

JOB NUMBER: 23928
APPLICABLE CODE: ASME SEC V ART 7 SE 709
PROCEDURE # MT-2 REVISION # 8 REV. DATE: 8/15/2019

EQUIPMENT

EQUIPMENT MANUFACTURER PARKER RESEARCH CORP. / SPECTROLINE
MAGNET MODEL NUMBER DA-400 SERIAL NUMBER 14584
BLACK LIGHT MODEL NUMBER TRI-365M SERIAL NUMBER BL-2
WHITE LIGHT MODEL NO. / TYPE

TECHNIQUE

Circular Magnetization Longitudinal Magnetization X
Prods Direct Contact Yokes X Coil
Continuous Method X Residual Method
Equipment Description PARKER YOKE, SPECTROLINE BLACKLIGHT

CLEANING

Precleaning Process Used: N/A
Post Cleaning Process Used: N/A

PROCESS VARIABLES

Dry Particles Wet Particles X Fluorescent X Nonfluorescent (Color)
Magnetizing Current (Longitudinal):
Magnetizing Current (Circular): 115 VOLTS / 4 AMPS A/C
Material Tested and Thickness see below, 1" + Demagnetization Technique Used N/A

PART IDENTIFICATION:

Table with 4 columns: QTY, JOB#, DESCRIPTION, RESULTS. Contains 3 rows of part identification data.

RESULTS: NO ROUNDED OR LINEAR INDICATIONS FOUND . MT IS ACCEPTABLE PER ASME SEC VIII DIV.1 APP 6.

Supplies Used: 2 CAN SPRAY ARDROX 8800A

TRUCK #: TECHNICIAN HRS. ASST. HRS. TRAVEL HRS. MILEAGE PERDIEM
TECHNICIAN: Wayne Burgett LEVEL II PAGE 1 OF 1
ASSISTANT: Cory Burgett LEVEL I
CUSTOMER REPRESENTATIVE: TOTAL TIME 4

AMERICAN PIPING INSPECTION, INC. ASSUMES NO RESPONSIBILITY FOR LOSSES OF ANY KIND DUE TO INTERPRETATION