



Major Tool and Machine, Inc.
 1458 E. 19th Street, Indianapolis, Indiana, 46218
Welder Performance Qualification (WPQ) Record
 Welderqual for Windows

Welder's name	McNew, Kevin		Test date	03/06/00
ID Number	683		WPQ record number	McNew K 003
Date of birth			Standard test number	Rev.
Stamp number			WPS record number	WPS003 Rev.
Company name	Major Tool and Machine, Inc.		Qualification code	ASME Section IX
Division				

BASE METALS (QW-403)

	Product form	Specification (type or grade)	P no.	Grp-no.	Size	Sch.	Thick. (in.)	Dia. (in.)
	Plate	SB-435 (UNS N06230)	47		-	-	1.25	-
Welded to:	Plate	SB-435 (UNS N06230)	47		-	-	1.25	-
Joint type	Groove							

VARIABLES

Type of weld joint	Plate - Groove	RANGE QUALIFIED
Base metal	P47 to P47	Groove and Fillet welds P-no./S-no. 1 thru 11, 34, 4X

BASE METAL THICKNESS

	Groove	Fillet	Overlay	Groove	Fillet	Overlay
Plate thickness (in.)	1.25	-	-	no limit	no limit	-
Pipe/tube thickness (in.)	-	-	-	no limit	no limit	-
Pipe diameter (in.)	-	-	-	2.875 min	no limit	-

PROCESS VARIABLES

	Actual values		RANGE QUALIFIED	
	GTAW	GMAW	GTAW	GMAW
Welding process	GTAW	GMAW	GTAW	GMAW
Type	Manual	Semi-automatic	Manual	Semi-automatic
Backing	With	With	With	With
Filler metal specification	5.14	5.14	5.xx	5.xx
Filler metal classification	ERNiCrCoMo-1	ERNiCrCoMo-1	Any	Any
Filler metal F-number	43	43	34,41..45	34,41..45
Filler metal variety (QW-404.23)	Bare (solid)	-	Solid, metal cored	-
Consumable insert	None	-	Without	-
Number of layers deposited	3 min.	3 min.		
Weld deposit thickness (in.)	.625	.625	no limit	no limit
Weld position (Actual position tested)	3G	1G		
Groove - Plate & Pipe >24"			F,V	F
Groove - Pipe 2.875" to 24"			F	F
Groove - Pipe < 2.875"			-	-
Fillet - Plate & Pipe >24"			F,H,V	F
Fillet - Pipe 2.875" to 24"			F,H,V	F
Fillet - Pipe < 2.875"			F,H,V	F
Progression	Vertical up	N/A	Vertical up	N/A
Backing gas	With	Without	With	With, without
GMAW transfer mode (QW-409)	-	Spray	-	Spray, pulse, globular
GTAW welding current/polarity	DCEN (straight polarity)	-	DCEN	-

TESTS

Type of test	Acceptance criteria	Result	Comments
Visual examination per QW-302.4	QW-194	Acceptable	see - ASME IX - QW-452.1 Note (8)
Radiographic examination per QW-191 and QW-302.2	QW-191.2	Acceptable	see - ASME IX - QW-142, QW-304

Notes

CERTIFICATION

Tests conducted by	U.S. Inspections	Laboratory test number	IN-L1469
Mechanical tests by		Test file number	

We certify that the statements in this record are correct and that the test welds were prepared, welded and tested in accordance with the requirements of Section IX of the ASME Code.

Welding Engineer

Name	Signature
David Leapley	
Date	
8/19/02	