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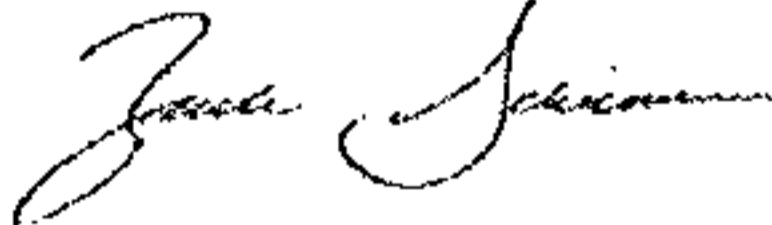
PRODUCT CERTIFICATION

MFG LOT NBR
JO8591-264624
 BILL OF LADING
00620905

HEAT NUMBER
JO8591
 SALES ORDER/LINE
243929 / 001
 CERT ID / REV
00376524 / 01

St

USA

CUSTOMER P.O 52617	CUSTOMER PART SA23	QUANTITY 10,336	BUNDLE(S) 2	TOTAL PIECES 162	GRADE A36/A529	SHIPMENT DATE 01/27/2023					
PART NUMBER : BA004112000ZZ		DESCRIPTION : Angle 2 x 2 x 1/4 20'0" A36/A529									
Alt Certs											
ASTM A36/A36M-19 ASTM A36/A36M-19 CU BEARING ASTM A529/A529M-19 GR50 ASTM A529/A529M-19 GR55 ASTM A529/A529M-19 GR55 (S78) ASTM A572/A572M-21 GR50 Type 2 ASTM A572/A572M-21 GR55 Type 2 ASTM A709/A709M-21 GR36 ASTM A709/A709M-21 GR36 CU BEARING ASTM A709/A709M-21 GR50 Type 2 CSA G40.21-13 GR44W CSA G40.21-13 GR50W CSA G40.21-13 GR55W AASHTO M270/M270M-20 GR36 AASHTO M270/M270M-20 GR36 CU BEARING AASHTO M270/M270M-20 GR50 Type 2 ASME SA36/SA36M-19 (01JUL19) ASME SA572/572M-17 GR50T2 (01JUL19)											
Chemical											
C	Mn	S	P	Si	Cr	Ni	Mo	Cu	V	Nb	CE
0.15	1.03	0.017	0.008	0.23	0.10	0.07	0.02	0.25	0.021	0.002	0.41
Yield Tensile Elongation											
	Yld-1 (KSI)	Yld-1 (MPa)	Ultimate-1 (KSI)	Ultimate-1 (MPa)	Elong8" (%)						
Sample-1	57.0	393	78.0	538	29						
	Yld-2 (KSI)	Yld-2 (MPa)	Ultimate-2 (KSI)	Ultimate-2 (MPa)	Elong8" (%)						
Sample-2	55.0	379	76.0	524	29						
<p>Approved ABS QA Mill. Certificate Nos. QA-5138516 and STML T2243995. This Material was melted and manufactured in our plant located in Roanoke, VA, USA, by basic Electric Furnace process(es) to meet the "ordered" Grade. Mercury, Radium or other Alpha source materials in any form have not been used in the production of this material. No Weld repair has been performed. Any tensile values stated herein either inch-pound units or SI units are to be regarded as separate as defined in the ASTM scope for this material. All samples tested are full size and in an "as-rolled" condition. Unless a metric specification is ordered, this material has been tested and meets the requirements of the inch-pound ranges.</p> <p>This is to certify the above to be a true and accurate report as contained in the records of this company.</p>											
END OF CERTIFICATION			 Metallurgist: <u>Zach Schiemann</u>								